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ERRATA—VOLUME 8, 1957

Note: In the following list only more important errors are included. Discrepancies in style, punctuation, accents, capitalization, transliteration, subject headings, etc. are *not* as a rule listed; nor are errors in the indexes of each issue where these errors are corrected in this volume index. Errors of fact which have come to our attention, mistakes in spelling of the names of authors (where there is no alternative spelling); and errors in title, journal entries or pagination *are* included. Other errors which may have been overlooked should be called to our attention (by post card, addressed to: Meteorological Abstracts, Box 1736, Washington 13, D. C.).

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Colloque International d'Astrophysique, 7th, Liege, July, 1956
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Colloque International sur les Problemes d'Actualité dans la Propagation des Ondes Radioélectriques, Paris, Sept., 1956
[Communications], 8J–187
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Conference of Radio Meteorology, Univ. of Texas, Austin, Nov., 1953
Proceedings, [v. 1–2], 8J–11
Conference on the Scientific Basis of Weather Modification Studies, Univ. of Arizona, Tucson, April, 1956
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Bulletin Climatologique Annuel du Congo Belge et du Ruanda-Urundi, 1954/1955, 8.4–98
Institute for Advanced Study, Princeton, N. J.
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International Conference on the Emission Spectra of the Night Sky and Aurorae, London, 1947
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International Scientific Radio Union, 11th Assembly, The Hague, Aug. 23–Sept. 2, 1954
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International Symposium on Man's Role in Changing the Face of the Earth, Princeton, N. J., June, 1955
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  And also **Special Bibliographies**
  Albedo, 8G–1 to 8G–212, p. 949–999, July 1957
  Climate of the forest, 8D–1 to 8D–109, p. 515–539, April 1957
  Hydrologic forecasting, 8E–1 to 8E–121, p. 657–682, May 1957
  Medical meteorology, 8K–1 to 8K–148, p. 1518–1554, Nov. 1957
  Meteors and zodiacal light, 8H–1 to 8H–117, p. 1109–1133, Aug. 1957
  Night airglow, 8B–1 to 8B–162, p. 213–249, Feb. 1957
  Numerical forecasting (Supplement, 1954–1957), 8F–1 to 8F–165, p. 804–840, June 1957
  Solar relations with weather. 8A–1 to 8A–117, p. 95–119, Jan. 1957
  Specialized forecasting techniques, 8C–1 to 8C–139, p. 372–401, March 1957
  Tropospheric propagation, 8I–1 to 8I–148, p. 1243–1273, Sept. 1957; 8J–1 to 8J–190, p. 1374–1418, Oct. 1957
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CUMULATIVE GEOGRAPHIC INDEX

In this index of geographical places there are three major sections:

- A. **Hemispheres and Regions**
- B. **Continents**
- C. **Oceans, Seas and Islands**

An alphabetical or dictionary type of arrangement is followed for all divisions and subdivisions of these major groups. For example, in Section B, the continents are arranged alphabetically as follows:

1. **Africa**
2. **Asia**
3. **Australasia** (Australia, New Zealand and Indonesia)
4. **Europe**
5. **North America**
6. **South America**

Within each continent the regions or main topographical features are listed alphabetically, followed by the countries in alphabetical order. No attempt has been made to distinguish between political and geographical regions or sub-regions.

Within each country all regions, states, provinces, cities or other geographical features falling entirely within that country from a single alphabetical list. Cities in Australia, Canada and the United States are alphabetized under their respective states or provinces.

In Section C the principal oceans and seas and their respective divisions have been arranged alphabetically. Islands not naturally associated with one or another of the continents have been assigned to the body of water in which they are located. Seas which fall entirely within one continent have been assigned to that continent.

Australasia includes **Australia, Indonesia** and **New Zealand; Japan** and the **Philippines** are under **Asia,** and **Greenland** under **North America.**

The Antarctic Regions include the Antarctic continent and bordering seas. It has been arbitrarily assigned to Section C on **Oceans, Seas and Islands** to preserve its analogy to the **Arctic.**

All references to the whole of the **U.S.S.R.** (Russia) will be found in the section under Europe. Places definitely in **Asiatic U.S.S.R.** (Siberia, Kazakhstan, etc.) will be listed under the appropriate country or area under **Asia.** Some of the latter may be also listed under **U.S.S.R.** in the European section.

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Australia. Meteorological Services, Research Report, 8I–18, 8I–19
Australian Journal of Agricultural Research, Melbourne, 8.3–304
Australian Journal of Physics, [Melbourne], 8.3–268, 8.4–226, 8.4–319, 8.6–181, 8.7–238, 8.8–241, 8G–202, 8G–210, 8H–25, 8H–53, 8H–54, 8H–74, 8H–97, 8I–41, *see also* p. 257, 543, 1006, 1138
Australian Journal of Scientific Research, Ser. A, Physical Sciences, [Melbourne], see *Australian Journal of Physics*
Australian Meteorological Magazine, [Melbourne], 8.1–209, 8.1–248, 8.1–323, 8.3–216, 8.4–191, 8.5–35, 8.5–108, 8.5–160, 8.5–163, 8.5–228, 8.5–270, 8.7–44, 8.8–210, 8.8–237, 8.10–238, 8.10–287, 8C–52, 8C–78, *see also* p. 257, 407, 845
Australian National Antarctic Research Expedition, 1947–1949, Interim Reports, 8.3–23, 8.10–32
Austria. Zentralanstalt für Meteorologie und Geodynamik, Aerologische Berichte, 8.10–96
Automatic Telephone Electricity, London, Journal, 8.7–333
Aviation Age, [N. Y.], 8.5–158

Barbados Museum and Historical Society, Journal, 8.10–148
**Batchelor, G. K. and Davies, R. M. (eds.) Surveys in Mechanics*, pub. 1956, 8.2–179, 8.2–180, 8.2–195, 8.2–197, 8.2–238
Beiträge zur Geologie der Schweiz, Geotechnische Serie, Hydrologie, 8G–41
Beiträge zur Geophysik, [Leipzig], 8.2–133, 8.6–85, 8.6–192, 8.7–164, 8.7–171, 8.7–190, 8A–10, 8A–13, 8A–62, 8A–67, 8A–87, 8A–101, 8A–103, 8A–104, 8B–10, 8B–14, 8F–151, 8G–18, 8G–20, 8G–112, 8K–116, 8K–117, 8K–118, *see also* p. 407, 687
Beiträge zur Gerichtlichen Medizin, 8K–125
Beiträge zur Physik der Atmosphäre, [Frankfurt a.M. Main], 8.4–1, 8.5–72, 8.5–234, 8.6–191, 8.6–272, 8.8–31, 8.9–166, 8.10–134, 8.10–205, 8.10–223, 8.10–224, 8.11–194, 8.11–215, 8.11–216, 8G–8, *see also* p. 544, 1277
Belgian Congo. Service Météorologique, Publication, 8.6–219, 8B–85
Belgium. Académie Royale des Sciences Coloniales, Bulletin des Séances, 8.4–144
Belgium. Académie Royale des Sciences Coloniales. Classe des Sciences Naturelles e Médicales, Mémoires, 8.6–219, 8B–85
Belgium. Direction de l'Agriculture, des Forêts, de l'Élevage et de la Colonisation, Bulletin Agricole du Congo Belge, 8.3–290
Belgium. Institut Royal Colonial Belge, see *Belgium. Acádemie Royale des Sciences Coloniales*
Belgium. Institut Royal Météorologique, Contributions, 8.3–85, 8.5–37, 8.5–92
Belgium. Institut Royal Météorologique, Miscellanées, 8A–26
Belgium. Institut Royal Météorologique, Publications, Ser. A, 8.1–19, 8.6–144
Belgium. Institut Royal Météorologique, Publications, Ser. B, 8.3–183
Bell Laboratories Record, [N. Y.], 8I–50
Bell System Technical Journal, 8I–12, 8I–136
Bergen. Universitetet. Årbok, Naturvitenskapelig Rekke, 8D–58, 8G–72
Berlin. Akademie der Wissenschaften, see unde *Akademie der Wissenschaften, Berlin*
Berlin. Freie Universität. Institut für Meteorologie und Geophysik, Meteorologische Abhandlungen, 8.3–125, 8.4–23, 8.4–49, 8.4–8 8.4–315, 8F–37, 8F–162, 8G–145
Berlin. Universität. Meteorologisches Institu Veröffentlichungen, 8.6–254
Beszámolók as 1955-ben végzett tudomnãy kutatásokról, [Budapest], see item numbe under *Hungary. Országos Meteorológiai I tézet, Hivatalos Kiadványai*
Bibliotek für Laeger, 8K–145
Biochemische Zeitschrift, 8K–100
Bonner Geographische Abhandlungen, [Bonn 8E–117, 8.11–250
Botanical Gazette, [Chicago], 8G–15
**Boyd, R. L. F.; Seaton, M. J. and Masse H. S. W. (eds.), Rocket Exploration of t Upper Atmosphere*, pub. London, Pergamo 1954, 8.1–220, 8.11–181, 8H–40, 8H–104

Braunschweigische Wissenschaftliche Gesellschaft, Abhandlungen, 8B–96
British Astronomical Association, Journal, 8.1–174, 8B–54
British Astronomical Association, Memoirs, 8.8–64
British Communications and Electronics, 8.7–114
British Electrical and Allied Industries Research Association, Technical Report, 8.9–213
British Interplanetary Society, London, Journal, 8.3–70, 8.6–65
British Journal of Applied Physics, [London], 8.5–83
British Medical Journal, [London], 8.2–109, 8.3–254
British Standards Institution, British Standard, 8.4–110
British West Africa. Meteorological Services, Meteorological Notes, 8.4–269, 8.4–290
Budapest. Agrártudományi Egyetem. Agrárközgazdasági Kar, Kiadványai, 8.8–287
Budapest. Erdészeti Tudományos Intézet, Erdészeti Kutatások, 8D–93
Bulgarska Akademiia na Naukite, Sofia, Izvestiia, Otdelenie za Fiziko-Matematicheski i Tekhnicheski Nauki, Seriia Fizicheska, 8.1–282, 8.4–172, 8H–44
Bulletin Agricole du Congo Belge, see title under *Belgium. Direction de l'Agriculture*
Bulletin Astronomique, [Paris], 8G–197
Bulletin Economique de l'Indochine, see title under *French Indochina. Service de la Statistique Générale*
Bulletin of the Astronomical Institutes of Czechoslovakia, [Prague], 8.1–176, 8.1–359, 8.1–390, 8.1–394, 8.4–285, 8A–43, 8H–27, 8H–43
Bulletin of the Meteorological Society for Research of Tohoku District, see this title under *Sendai, Japan. Central Meteorological Observatory*
Bulletin of the Atmospheric Radioactivity, [Tokyo], 8.8–7
Bulletion of the Atomic Scientists, [Chicago], 8.8–110
Bulletin Scientifique, [Zagreb, Yugoslavia], 8.7–226

Cahiers de la Recherche Agronomique, see title under *Morocco. Service de la Recherche Agronomique*
California. Div. of Mines, Special Report, 8.1–54
California. State Water Resources Board, Bulletin, 8E–25
California. Univ., Univ. of California Publications in Geography, 8.10–18, 8D–99, 8G–151
California. Univ. Dept. of Engineering, Report of Air Pollution Studies, 8.6–271
California. Univ. Scripps Institution of Oceanography, La Jolla, Bulletin, 8G–160
Cambridge Philosophical Society, Proceedings, 8.1–184, 8.3–181
Canada. Defence Research Board, ORG Memorandum, 8.7–330
Canada. Defence Research Board, Translation, 8.6–3, 8.10–299, 8B–40, 8B–153, 8G–189, 8H–94
Canada. Dept. of Mines and Technical Surveys. Geographical Branch, Bibliographical Series, 8.4–51
Canada. Meteorological Div., Circular, 8.3–194, 8.3–313, 8.3–318, 8.4–106, 8.4–111, 8.4–230, 8.5–154, 8.8–32, 8.10–144, 8.10–180, 8.10–182, 8.10–196, 8.10–281, 8.11–117, 8C–101, 8C–102, 8C–119, 8C–125, 8E–20, 8E–38, 8E–116, 8F–147
Canadian Geophysical Bulletin, [Ottawa], 8.11–45
Canadian Journal of Agricultural Science, [Quebec], 8.1–98
Canadian Journal of Physics, [Ottawa], 8.3–178, 8.3–315, 8.3–316, 8.3–350, 8.3–351, 8.4–340, 8.6–189, 8.7–206, 8.7–343, 8.10–297, 8J–99, 8H–32, 8H–33, 8H–59, 8H–85, 8H–110
Carnegie Institution of Washington, Publication, 8.7–5
Carnegie Institution of Washington, Yearbook, 8.1–37
Central Aerological Observatory of the U.S.S.R., see *Moscow. Tsentral'naia Aerologicheskaia Observatoriia*
Central Forecasting Institute of the U.S.S.R., see *Moscow. Tsentral'nyĭ Institut Prognozov*
Česká Akademie Věd a Umění, Prague, Třída 2, Matematicko-Přírodovědecká, Rozpravy, 8.3–213
Československá Akademie Věd, Prague, Rozpravy, 8.8–188, 8H–82
Československá Akademie Zemědělská, Prague, Sborník, Ser. B, 8.11–92, 8D–74
Chalmers Tekniska Högskola, see under *Göteborg, Sweden*
Chicago. University, Research Paper, 8.7–25
Ciel et Terre, [Uccle], 8.1–117, 8.6–145, 8.7–61, 8A–71, 8G–192, 8G–194, *see also* p. 1424
Ciencia e Investigación, [Buenos Aires], 8.1–265
Clevelander, [Cleveland, Ohio], 8.1–44
Collected Meteorological Papers, [Tokyo], 8F–120, 8F–158
Colloque International d'Astrophysique, [Proceedings], see p. 1561
Colorado. Univ. High Altitude Observatory. Institute for Solar Terrestrial Research, Technical Report, see p. 846
Commercial Grower, [London], 8.9–96
Commission for the Study of Solar and Terrestrial Relationships, see under *International Council of Scientific Unions, Report of the Commission . . .*
Commonwealth Air Transport Council, Newsletter, 8.2–185
Commonwealth Engineer, [Melbourne], 8.9–270, 8E–105
Compañía Administradora del Guano, Lima, Boletín Científico, 8.3–128, 8.7–222
**Compendium of Meteorology*, pub. 1951, [Boston, American Meteorological Society], 8A–34, 8B–55, 8G–82, 8H–16, 8I–104, 8K–20

Compressed Air Magazine, [N. Y.], 8.9–249

**Conference on Radio Meteorology, Nov. 9–12, 1953, Univ. of Texas, Proceedings*, pub. 1953–1954, 8.1–392, 8J–7, 8J–11, 8J–20, 8J–35, 8J–42, 8J–46

**Conference on the Scientific Basis of Weather Modification Studies, Univ. of Arizona, Tucson, April 10–12, 1956, Proceedings*, 8.1–5, 8.10–214, *see also* p. 124

Congressional Quarterly News Features, Weekly Report, 8.9–47

Connecticut Circle, [New London, Conn.], 8.1–296

Current Science, [Bangalore], 8.1–104, 8.1–356, 8.3–55, 8.6–253, 8.9–109, 8.11–106

Cycles, [N. Y.], 8.5–164, 8.6–232

Czasopismo Geograficzne, [Warsaw], 8.3–47, 8.4–29, 8.11–249

Czekhoslovatskiĭ Fizicheskiĭ Zhurnal, [Prague], 8.7–250

Danish Academy of Technical Sciences, see *Akademiet för de Tekniske Videnskaber*

Davoser Revue, [Davos], 8.5–57

Deep-Sea Research, [London], 8.3–201, 8.5–100, 8.7–3, 8.7–63, 8.9–64, *see also* p. 407

Deutsche Botanische Gesellschaft, Berlin, Berichte, 8.5–114, 8.5–301, 8.5–314

Deutsche Gesundheitswesen, 8K–82

Deutsche Hydrographische Zeitschrift, [Hamburg], 8.1–86, 8.1–109, 8.2–40, 8.2–126, 8.2–194, 8.3–293, 8.3–297, 8.4–239, 8.5–88, 8.5–90, 8.5–107, 8.6–7, 8.6–60, 8.6–75, 8.6–239, 8.8–56, 8.8–78, 8.8–79, 8.8–255, 8.9–83, 8J–122, *see also* p. 847

Deutsche Medizinische Wochenschrift, [Stuttgart], 8K–50, 8K–69, 8K–101

Deutsches Gewässerkundliches Jahrbuch, Besondere Mitteilungen, 8.10–14, 8E–101

Deutsches Wissenschaftliches Institut, Copenhagen, Veröffentlichungen, Ser. I, Arktis, 8G–51

Discovery, [Cambridge], 8.6–62, 8.6–64

Dorset Natural History and Archaeological Society, Proceedings, 8.7–282

**Dynamic North*, pub. Wash., D. C., Technical Assistant to Chief of Naval Operations for Polar Projects, 1956, 8.4–171, 8.4–335, 8.5–4, 8.5–31, 8.5–32, 8.7–23, *see also* p. 688

East Africa High Commission. Meteorological Dept., Memoirs, 8.6–167, 8.6–171

East Africa High Commission. Meteorological Dept., Technical Memorandum, 8.8–119

East Malling, England, Research Station, Annual Report 1955, 8.2–72, 8.2–210

Eastern Snow Conference, Proceedings, 8.3–270, 8.4–282, 8.5–272, 8.5–275

Ecological Monographs, [Durham, North Carolina], 8.4–308

Ecology, [Durham, N. C.], 8.1–313, 8.1–344, 8.3–305, 8.3–311, 8.4–218, 8.7–105, 8D–10, 8G–131

Eire. Meteorological Service, Technical Note, 8.10–55, 8.11–6, 8.11–84, 8C–116

Electronic Engineering, [London], 8.5–176

Electronics, [Albany, N. Y.], 8I–40, 8I–127, 8J–40

Elektron, [Munich], 8I–42

The Elements, [Honolulu], see title under *Philippines. Weather Bureau*

Empire Forestry Review, (London], 8.11–203, 8.11–205

Endeavour, [London], 8.8–39, 8.10–294, 8F–101

Engineering News, [Lahore, West Pakistan], 8.10–236

Entomological Society of America, Columbus, Ohio, Annals, 8.8–219

Die Erde, [Berlin], 8.2–48, 8.5–33, 8.5–293, 8.5–316, 8.7–91, 8.8–65, 8.8–86, 8.8–283

Erdkunde, [Bonn], 8.4–238, 8.4–294, 8.4–303, 8.5–221, 8.6–328, 8.6–339, 8.8–293, 8.10–271

Ergebnisse der Exakten Naturwissenschaften, [Berlin], 8B–54

Essex Naturalist, [Buckhurst Hill, England], 8.7–308

Expéditions Polaires Françaises, Résultats Scientifiques (titles from both *Series N, Arctic*, and *Ser. S, Antarctic Expeditions*), see p. 125

Expéditions Polaires Françaises, Expéditions Antarctiques, Résultats Scientifiques, Ser. S. V. (*Météorologie*), 8.4–31, 8.6–129, 8.11–31

Expéditions Polaires Françaises, Expéditions Arctiques, Publication, 8.7–42

Expéditions Polaires Françaises, Expéditions Arctiques, Publications Preliminaires, 8.6–40

Expéditions Polaires Françaises, Expéditions Arctiques, Résultats Scientifiques, Ser. N. V. (*Météorologie*), 8.4–30, 8.9–31

Experientia, [Basel], 8H–24, 8K–32, 8K–81

Factory Mutual Record, [Boston], 8.8–278

Falkland Islands. Meteorological Service, Meteorological Observations, 8.5–144

Farnborough, England. Royal Aircraft Establishment, Report, 8.7–231, 8.8–247

Farnborough, England. Royal Aircraft Establishment, Technical Note, 8.1–396, 8.2–214, 8.7–120, 8J–146

Federal Science Progress, [Wash., D. C.], 8C–76

Federation of American Societies for Experimental Biology, Federation Proceedings, 8K–21, 8K–35, 8K–48

Fennia, [Helsinki], 8.4–214, 8E–111

Finland. Ilmatieteellinen Keskuslaitos, Aerologiset Havainnot, 8.4–102

Finland. Ilmatieteellinen Keskuslaitos, Ilmatieteelliset Havainnot Suomessa, 8.10–95

Finland. Ilmatieteellinen Keskuslaitos, Suomen Meteorologinen Vuosikirja, 8.10–95, 8.4–102

Florida. Univ., Gainesville. Engineering and Industrial Experiment Station, Engineering Progress at the Univ., 8.7–311

Florida Academy of Sciences, Gainesville, Quarterly Journal, 8.10–116

Florida Anthropologist, 8.1–339

Földrajzi Értesítő, [Budapest], 8.8–295, 8.9–295

Földrajzi Közlemények, [Budapest], 8.8–279, 8.9–277, 8D–9

Folia Cardiologica, [Milan], 8K–115

Forest Science, [Wash., D. C.], 8.11–94

Forestry, [London], 8D–92

Forschungen und Fortschritte, [Berlin], 8.2–268, 8.2–280, 8.2–324, 8.4–298, 8.5–146, 8.7–215, 8.11–70

Forstwissenschaftliches Centralblatt, [Berlin], 8D–11, 8D–14, 8D–22, 8D–46, 8D–49, 8D–72, 8G–106

France. Centre National de la Recherche Scientifique, Colloques Internationaux, 8A–27

France. Centre National de la Recherche Scientifique, Journal des Recherches, 8.11–213

France. Comité Central d'Océanographie et d'Etude des Côtes, Bulletin d'Information, 8.11–59

France. Météorologie Nationale, Annales des Services Météorologiques de la France d'Outre-Mer, 8.9–122

France. Météorologie Nationale, Bibliographie Météorologique Internationale, 8.3–62

France. Météorologie Nationale, Bulletin Annuel du Service Météorologique de la Métropole et de l'Afrique de Nord, 8.4–97

France. Météorologie Nationale, Memorial, 8.3–17, 8.9–25, 8.9–144

France. Météorologie Nationale, Monographies, 8.9–26

France. Ministère de l'Air, Publications Scientifiques et Techniques, 8.6–74

Frankfurt a.M. Universität. Meteorologisch-Geophysikalisches Institute, Berichte, see p. 1138

Franklin Institute, Philadelphia, Journal Monograph, 8.4–3, 8.10–51, 8.11–71, *see also* p. 544

French Indochina. Service de la Statistique Générale, Bulletin Economique de l'Indochine, 8D–31

Gambia. [Meteorological Service], Meteorological Observations, 8.6–126

Gazeta Obserwatora PIHM, [Warsaw], 8.9–275, 8C–55

Geochimica et Cosmochimica Acta, [London], 8.2–104

Geofisica e Meteorologia, [Genoa], 8.1–332, 8.3–89, 8.4–90, 8.4–101, 8.4–196, 8.5–95, 8.6–255, 8.6–359, 8.7–277, 8.7–331, 8A–97, 8C–9, *see also* p. 257, 545, 1006, 1139

Geofisica Pura e Applicata, [Milan], 8.1–142, 8.1–270, 8.1–320, 8.3–223, 8.3–245, 8.3–247, 8.3–251, 8.4–168, 8.5–181, 8.5–214, 8.5–251, 8.5–262, 8.5–320, 8.6–135, 8.6–195, 8.6–220, 8.6–273, 8.6–280, 8.6–343, 8.6–364, 8.7–210, 8.8–44, 8.8–166, 8.9–169, 8.9–257, 8.10–122, 8.10–215, 8.10–216, 8.10–217, 8.11–62, 8.11–114, 8.11–211, 8.11–214, 8.11–217, 8.11–220, 8.11–221, 8.11–222, 8.11–229, 8G–101, 8I–38, 8J–153, 8J–162, 8K–10, *see also* p. 126, 545, 1140

Geofysiske Publikasjoner, [Oslo], 8.1–20, 8.4–341, 8.10–16, 8.10–24, 8.11–7, 8A–51

Geografisk Tidsskrift, [Copenhagen], 8.1–53, 8.9–176

Geografiska Annaler, [Stockholm], 8.4–95, 8.5–241, 8.9–228, 8G–9, 8G–35, 8G–66, 8G–137

Geographical Journal, [London], 8.1–338, 8.2–231, 8.5–38, 8.5–75, 8.6–47, 8.7–108, 8.7–217, 8.8–46

Geographical Magazine, [London], 8.2–10

Geographical Review, [N. Y.], 8.3–284, 8.5–63, 8.5–298, 8.7–43, 8.9–39, 8.10–18, 8D–104

Geographische Handbücher, [Heidelberg], 8.9–38

Geography, [Nanking], 8.4–288

Geological Society of London, Quarterly Journal, 8.3–296

Geologische Rundschau, [Stuttgart], 8.3–295

Geologisches Jahrbuch, [Hannover], 8.10–192, 8.10–193

Geophysica, [Helsinki], 8.1–149, 8.1–163, 8.3–118, 8.3–159, 8.3–232, 8.4–50, 8.5–134, *see also* p. 847, 1278

Geophysical Magazine, [Tokyo], 8.1–206, 8.3–142, 8.4–207, 8.6–217, 8F–65, 8K–133

Geophysical Observatory, Leningrad, see *Leningrad. Glavnaia Geofizicheskaia Observatoriia*

Geophysical Research Papers, see under *U. S. Air Force. Cambridge Research Center*

Geophysikalische Einzelschriften, [Hamburg], 8.1–6

Germany. Deutsche Demokratische Republik. Meteorologischer und Hydrologischer Dienst, Abhandlungen, 8.1–18, 8.3–20, 8.9–170, 8.9–170, 8.9–173, 8K–55

Germany. Deutsche Demokratische Republik. Meteorologischer und Hydrologischer Dienst, Deutsches Meteorologisches Jahrbuch, 8.3–104

Germany. Deutsche Demokratische Republik. Meteorologischer und Hydrologischer Dienst, Veröffentlichungen, 8.1–358, 8.1–391

Germany. Deutscher Wetterdienst, Berichte, 8.5–21, 8.7–110, 8.7–142, 8.9–48, 8.9–184, 8.9–186, 8.9–221, 8.9–231, 8.9–302, 8.10–41, 8.10–46, 8.10–179, 8D–103, 8F–57, 8K–129

Germany. Deutscher Wetterdienst, Bibliographien, 8K–28

Germany. Deutscher Wetterdienst, Mitteilungen, 8.1–159, 8.1–160, 8.1–165, 8.3–1, 8.3–185, 8.4–71, 8.4–73, 8.4–74, 8.5–109, 8.5–110, 8.6–155, 8.6–157, 8.6–331, 8.7–90, 8.7–94, 8.8–53, 8.8–74, 8.8–174, 8.9–45, 8.11–85, 8.11–87, *see also* p. 407

Germany. Deutscher Wetterdienst. Instrumentenamt Hamburg, Technische Mitteilungen des Instrumentenwesens des Deutschen Wetterdienstes, New Ser., 8.4–120, 8.4–122, 8.5–157, 8.5–212, 8G–163

Germany. Deutscher Wetterdienst. Klima-Schnellmeldedienst, [Pub.], 8.2–143

Germany. Deutscher Wetterdienst in der US-Zone, Berichte, 8.2–24, 8.2–286, 8.6–150, 8.8–145, 8.8–149, 8.11–77, 8A–75, 8C–48, 8C–133, 8I–62, 8I–129, 8K–7, 8K–33, 8K–36, 8K–93, 8K–139

Germany. Reichsamt für Wetterdienst, Wissenschaftliche Abhandlungen, 8G–44
Grain Quarterly, [St. Paul, Minn.], 8.1–210
Granada. Observatorio de Cartuja, Publicaciones, Ser. B, 8.1–231
Gigiena i Sanitariia, [Moscow], 8.3–134, 8.3–136, 8.3–141, 8.3–175, 8.4–79, 8.4–209, 8.4–312, 8.9–301, 8.10–83, 8.10–270, 8.11–209, 8K–47, 8K–84, 8K–110, 8K–126, 8K–130
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Graefes Archiv für Ophtalmologie, 8K–108
Great Britain. Admiralty Materials Laboratory, see under *Holton Heath, England*
Great Britain. Aeronautical Research Council, Current Papers, 8.11–132
Great Britain. Chemical Defence Experimental Establishment, Porton, see *Porton, England. Chemical Defence Experimental Establishment*
Great Britain. Meteorological Office, Annual Report of the Director, 8.2–23
Great Britain. Meteorological Office, Geophysical Memoirs, 8.8–215, 8A–85
Great Britain. Meteorological Office, Meteorological Reports, 8.6–66
Great Britain. Meteorological Office, Professional Notes, 8.1–283, 8A–61
Great Britain. Meteorological Office, Réseau Mondial, 8.7–116
Great Britain. Meteorological Office, Upper Air Data for Stations Maintained by the Meteorological Office, 8.8–146, 8.9–125
Great Britain. Meteorological Office. Agricultural Branch, Memorandum, 8.8–69
Great Britain. Meteorological Office. British Climatology Branch, Memoranda, 8.2–166, 8.2–168, 8.5–217, 8.8–250
Great Britain. Meteorological Office. Synoptic Division, Technical Memorandum, 8.11–155
Great Britain. Meteorological Research Committee, M. R. Papers, 8.1–120, 8.1–121, 8.1–146, 8.1–149, 8.1–158, 8.1–169, 8.1–172, 8.1–177, 8.1–228, 8.1–241, 8.1–255, 8.1–260, 8.1–267, 8.1–277, 8.1–280, 8.1–283, 8.2–74, 8.2–98, 8.2–100, 8.2–181, 8.2–198, 8.2–212, 8.2–216, 8.3–244, 8.4–131, 8.4–132, 8.4–170, 8.4–267, 8.5–174, 8.5–219, 8.6–113, 8.6–278, 8.7–48, 8.7–140, 8.8–159, 8.8–165, 8.8–256, 8.8–261, 8.8–265, 8.8–269, 8.8–275, 8.9–79, 8.9–132, 8.9–207, 8.10–126, 8.10–165, 8.10–203, 8.10–244, 8.11–185, 8.11–193, 8.11–199, 8.11–202, 8.11–232, 8.11–257, 8.11–258, 8F–23, 8F–24, 8F–70, 8F–154, 8G–118, 8J–131
Great Britain. Ministry of Agriculture, Journal, 8.2–259
Great Britain. Ministry of Health, Monthly Bulletin, 8.2–108
Great Britain. Ministry of Supply. Radar Research Establishment, R.R.E. Memorandum, 8.2–87
Great Britain. National Agricultural Advisory Service, N.A.A.S. Quarterly Review, 8.2–45
Great Britain. Naval Weather Service, Memo, 84.–65
Great Britain. Royal Aircraft Establishment, Farnborough, see *Farnborough, England. Royal Aircraft Establishment*
Greece. Ethnikē Meteorologike Hyperesia, Upper Air Observations for Athens Radiosonde Station, 8.9–126
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Griffith Observer, [Los Angeles], 8H–25

Hamburg. Nordwestdeutscher Rundfunk, Technische Hausmitteilungen, 8I–129, 8I–130
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Handbuch der Geophysik, [Berlin], 8.7–31, 8B–20, 8G–53, 8G–150
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Hawaii Medical Journal, [Honolulu], 8K–83
Heating, Piping and Air Conditioning, [Chicago], 8.5–213, 8.7–106
Helsinki. Universitet, Meteorologiska Institutet, Mitteilungen, 8.4–214, 8.10–17
Helvetica Physica Acta, [Basel], 8G–47
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Helwan, Egypt. Observatory, Meteorological Report, 8.8–139
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Hong Kong. Royal Observatory, Technical Note, 8.3–189, 8.6–169, 8.8–172, 8.10–56
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Hydrological Institute, Leningrad, see *Leningrad. Gosudarstvennyĭ Gidrologicheskiĭ Institut*

Ibadan, Nigeria. University College. Dept. of Geography, Research Notes, 8.3–117

Időjárás, [Budapest], 8.1–47, 8.1–93, 8.1–233, 8.1–242, 8.1–284, 8.1–345, 8.3–37, 8.3–54, 8.3–82, 8.3–127, 8.3–160, 8.3–186, 8.3–191, 8.3–276, 8.4–35, 8.4–109, 8.4–139, 8.4–166, 8.4–167, 8.4–186, 8.5–47, 8.5–49, 8.5–118, 8.5–283, 8.5–297, 8.6–91, 8.6–111, 8.6–125, 8.6–162, 8.6–213, 8.8–50, 8.8–85, 8.8–209, 8.9–65, 8.9–146, 8.9–193, 8.9–195, 8.10–50, 8.10–81, 8.10–279, 8.11–34, 8.11–133, 8C–47, 8C–72, 8E–18, 8E–19, 8E–50, 8E–79, 8E–99, 8F–14, 8G–130, 8J–135, 8K–60, 8K–61, 8K–62, 8K–72, 8K–122, 8K–123, 8K–124, *see also* p. 257, 546, 1007, 1651

IGY Bulletin, [Wash., D. C.], see p. 1140, 1425

Illinois Academy of Science, Transactions, 8D–6

Illinois. Agricultural Experiment Station, Bulletin, 8.4–26

Illinois. State Water Survey Div., Bulletin, 8I–132

Illinois. State Water Survey Div., Report of Investigation, 8.5–266, 8.10–87

India. Meteorological Dept., Memoirs, 8.6–291, 8.11–235

India. Meteorological Dept., Scientific Notes, 8E–9

Indian Journal of Meteorology and Geophysics, [New Delhi], 8.1–22, 8.1–188, 8.1–201, 8.1–288, 8.1–292, 8.1–293, 8.1–374, 8.1–384, 8.3–79, 8.3–124, 8.3–217, 8.3–261, 8.4–45, 8.4–121, 8.4–201, 8.4–220, 8.4–270, 8.4–277, 8.5–58, 8.5–62, 8.5–86, 8.5–93, 8.5–111, 8.5–156, 8.5–184, 8.5–200, 8.5–202, 8.5–218, 8.5–235, 8.5–317, 8.6–147, 8.6–148, 8.6–212, 8.6–238, 8.6–252, 8.6–263, 8.6–264, 8.6–266, 8.7–53, 8.7–135, 8.7–247, 8.7–261, 8.7–310, 8.8–83, 8.8–128, 8.8–130, 8.8–212, 8.9–95, 8.9–128, 8.9–129, 8.9–133, 8.9–178, 8.9–306, 8.9–308, 8.10–93, 8.10–147, 8.10–167, 8.10–187, 8.10–220, 8.10–231, 8.10–282, 8.11–75, 8.11–122, 8.11–144, 8.11–145, 8.11–172, 8.11–240, 8C–34, 8C–75, 8C–84, 8E–31, 8E–32, 8J–188, *see also* p. 258, 547, 1008, 1139

Indian Journal of Physics, [Calcutta], 8B–58

Indonesia. Djawatan Meteorologi dan Geofisik, Verhandelingen, 8A–72

Industrial and Engineering Chemistry, [Wash., D. C.], 8.10–124, 8.10–125, 8.10–127

Ingeniörvidenskabelige Skrifter, Ser. A, 8I–1

Institut de Physique du Globe, Strasbourg, see under *Strasbourg. Université*

Institut Français d'Afrique Noire, Dakar, Bulletin, Ser. A., 8D–98

Institut National pour l'Etude Agronomique du Congo Belge, Brussels. Bureau Climatologique, Communication, 8.4–98, 8.10–15

Institut Royal Colonial Belge, see under *Belgium*

Institute for Advanced Study, Princeton, N. J., Report of the Director, 8F–62

**Institute of Biology, London, Biology of deserts: the Proceedings of a Symposium on the Biology of Hot and Cold Deserts*, Pub. by the Institute, 1954, 8.3–3, 8.3–306, 8.4–311, 8.5–292, 8.5–310, 8.6–336, 8.6–338, 8.6–342, 8.7–33, 8.8–285, *see also* p. 409

Institute of Navigation, London, Journal, 8.6–35, 8.6–67, 8.6–69, 8.6–71, 8.6–133, 8.7–86, 8.9–36, 8.9–78, 8.10–33, 8.10–57, 8.10–58, 8.10–59

Institute of Radio Engineers, N. Y., Convention Record, 8J–19, 8J–41, 8J–45, 8J–48, 8J–65, 8J–128, 8J–136

Institute of Radio Engineers, N. Y., Proceedings, 8.1–133, 8.1–395, 8.3–33, 8.3–110, 8.3–341, 8.3–343, 8.3–345, 8.3–349, 8.5–138, 8.5–339, 8.5–340, 8.5–342, 8.5–344, 8.6–109, 8.6–369, 8.7–68, 8.11–276, 8F–21, 8H–12, 8H–56, 8H–81, 8H–102, 8H–112, 8H–116, 8G–134, 8I–2, 8I–4, 8I–6, 8I–7, 8I–9, 8I–13, 8I–14, 8I–16, 8I–17, 8I–23, 8I–25, 8I–28, 8I–30, 8I–32, 8I–33, 8I–34, 8I–36, 8I–37, 8I–39, 8I–49, 8I–55, 8I–58, 8I–59, 8I–61, 8I–64, 8I–68, 8I–70, 8I–73, 8I–75, 8I–79, 8I–80, 8I–81, 8I–91, 8I–95, 8I–96, 8I–97, 8I–98, 8I–115, 8I–135, 8I–140, 8I–144, 8I–148, 8J–4, 8J–6, 8J–10, 8J–16, 8J–18, 8J–21, 8J–28, 8J–29, 8J–32, 8J–34, 8J–43, 8J–50, 8J–63, 8J–67, 8J–68, 8J–69, 8J–70, 8J–71, 8J–73, 8J–75, 8J–77, 8J–78, 8J–81, 8J–82, 8J–86, 8J–88, 8J–90, 8J–93, 8J–95, 8J–98, 8J–100, 8J–101, 8J–102, 8J–103, 8J–105, 8J–107, 8J–109, 8J–112, 8J–114, 8J–117, 8J–119, 8J–123, 8J–157, 8J–175, 8J–176, *see also* p. 1140

Institute of Radio Engineers, N. Y., Professional Group on Antennas and Propagation, Transactions, 8.1–393, 8J–49, 8J–58, 8J–15, 8J–30, 8J–47, 8J–121, 8J–129, 8J–134

Institute of Radio Engineers. Professional Group on Communications Systems, Transactions, 8J–178, 8J–180

Institution of Civil Engineers, Proceedings, 8.2–249

Institution of Electrical Engineers, London, Journal, New Series, 8J–83

Institution of Electrical Engineers, London, Proceedings, 8.1–396, 8.4–338, 8.5–175, 8.5–337, 8.9–106, 8.9–158, 8.11–159, 8J–25, 8J–83, 8J–96, 8J–108, 8J–146, 8J–164, 8J–167

Institution of Engineers (of) Australia, Sydney, Journal, 8.4–284, 8.5–139, 8.5–289, 8.5–290, 8.6–299, 8.8–271, 8E–72, 8E–119

Institution of Heating and Ventilating Engineers, London, Journal, 8.1–106, 8.7–191, 8.8–52

Institution of Mechanical Engineers, London, Proceedings, 8.6–24

Institution of Mining Engineers, Transactions, 8.2–99

Institution of Water Engineers, London, Journal, 8.2–225
Instituto Antárctico Argentino, Buenos Aires, Publicación, 8.3–10
Instrument Practice, [London], 8.2–85, 8.6–149, 8.11–139
Interavia, [Geneva], 8.5–101, 8.7–88
International Civil Aviation Organization, ICAO Circular, 8.9–73
**International Conference on the Emission Spectra of the Night Sky and Aurorae, London, 1947, Papers,* pub. 1948, 8B–22, 8B–23, 8B–24, 8B–25, 8B–26, 8B–28, 8B–29, 8B–30, 8B–31, 8B–32, 8B–35, 8B–36, 8B–37, 8B–38
International Council of Scientific Unions, Brussels, Report of the Commission for the Study of Solar and Terrestrial Relationships, 8.2–145, 8.2–146, 8.2–154, 8.2–156, 8.2–161, 8A–4, 8A–5, 8A–15, 8A–21, 8A–32, 8B–27, 8B–106
International Council of Scientific Unions, Brussels. Joint Commission of Radio-Meteorology, Proceedings, 8.5–60
International Council of Scientific Unions, Brussels. Mixed Commission for the Study of Solar and Terrestrial Relationships, Procès Verbal, 8A–42
International Council of Scientific Unions, Brussels. Mixed Commission on the Ionosphere, Proceedings, 8B–59
International Engineer, [Wash, D. C.], 8E–80
International Journal of Leprosy, 8K–114
International Scientific Radio Union, Proceedings, 8.3–97
**International Symposium on Man's Role in Changing the Face of the Earth, 1955, Proceedings,* pub. 1956, see p. 1425
International Union of Geodesy and Geophysics. Bulletin d'Information, 8.1–43, 8H–30
I.U.G.G., Comptes Rendus des Travaux de la Section des Nivellements de Précision, 8.5–325, 8.5–326
**I.U.G.G. Association of Meteorology, Scientific Proceedings,* 8.1–2, 8.4–220, 8.7–36, 8.7–122, 8.7–177, 8.7–194, 8.7–226, 8.7–230, 8.7–234, 8.7–251, 8.7–268, 8.8–127, 8.8–163, 8.8–182, 8.8–184, 8.8–186, 8.8–201, 8.8–202, 8.8–207, 8.8–211, 8.8–216, 8.8–221, 8.9–112, 8.9–164, 8.9–188, 8.9–199, 8.9–314, 8.10–91, 8.10–104, 8.10–133, 8.10–136, 8.10–140, 8.10–141, 8.10–142, 8.10–145, 8.10–222, 8.11–267, 8A–96, 8F–47, 8F–65, 8F–109, 8F–142, 8G–162, *see also* p. 126
I.U.G.G. Association of Meteorology, Procès-Verbaux des Séances. Mémoires et Discussion, 8.1–192, 8.3–157, 8A–78
I.U.G.G. Association of Scientific Hydrology, [Transactions], 8.8–276, 8.9–269, 8.9–276, 8E–61, 8E–68, 8E–75, 8E–77, 8G–169
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Irish Astronomical Journal, [Armagh], 8.5–55
**Israël, H., (ed.), Luftelektrizität im A.G.J.: Bericht über die Tagung in Aachen, 1956,* pub. 1957, see p. 1008
Israel. Hydrological Service, Hydrological Paper, 8.5–137
Israel. Meteorological Service, Annual Weather Report, 8.6–128
Israel. Meteorological Service, Series A, Meteorological Notes, 8.6–21, 8I–141
Israel. Meteorological Service, Series B, Observational Data, 8.6–128
Israel. Meteorological Service, Series D, Contributions, 8.2–233, 8.10–212
Israel Exploration Journal, [Jerusalem], 8.2–233
Istituto Geofisico, Trieste, see *Trieste. Istituto Geofisico*
Italy. Comitato Talassografico Italiano, Memoria, 8.1–65
Italy. Ufficio Idrografico, Pisa, Annali Idrologici, 8.8–140
Iwate Meteorological Equality Corresponding Association, The Review, 8.7–315

Jahrbücher für Wissenschaftliche Botanik, [Leipzig], 8D–32
Japan. Central Meteorological Observatory, Tokyo, see titles under *Japan. Meteorological Agency, Tokyo*
Japan. Forest Experiment Station, see *Tokyo. Forest Experiment Station*
Japan. Meteorological Agency. Tokyo, Memoirs of Industrial Meteorology, 8.1–229, 8.5–288, 8.11–131, *see also* p. 258, 848, 1562
Japan. Radio Research Laboratories, Tokyo, Journal, 8.3–346, 8.5–343, 8J–64, 8J–80, 8J–87, 8J–91, 8J–94, 8J–110, 8J–126, 8J–148, *see also* p. 1140
Japan. Science Council. Ionosphere Research Committee, Report of Ionosphere Research in Japan, 8.3–314, 8.6–354, 8.10–290, 8.11–66, 8B–60, 8B–124, 8C–134, 8J–97, *see also* p. 259, 688, 1141, 1562
Japanese Journal of Geophysics, [Tokyo], 8J–60
Jet Propulsion, [New York], 8.3–65, 8H–88
Johns Hopkins University. Chesapeake Bay Institute, Collected Reprints, 8.7–4
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Journal de Physique et le Radium, [Paris], 8.10–155, 8B–9
Journal of the Aeronautical Sciences, [N. Y.], 8.7–82, 8.8–245, 8.9–212
Journal of Agricultural Meteorology, [Tokyo], 8.1–96, 8.1–238, 8.1–253, 8.3–188, 8.3–234, 8.3–264, 8.3–299, 8.4–211, 8.4–215, 8.5–113, 8.5–303, 8.8–90, 8.8–246, 8C–123, 8D–88, *see also* p. 547
Journal of Agricultural Science, [Cambridge, Eng.], 8.5–260
Journal of Allergy, [St. Louis], 8.3–307, 8.7–101, 8K–34
Journal of Applied Physics, [N. Y.], 8.6–172, 8I–112, 8J–74, 8J–144, 8J–145, 8J–168, 8J–173

Journal of Applied Physics, [Tokyo (?), Japan], 8.10–103

Journal of Atmospheric and Terrestrial Physics, [London], 8.2–67, 8.2–112, 8.2–114, 8.2–115, 8.2–116, 8.2–117, 8.2–118, 8.2–148, 8.2–149, 8.2–150, 8.2–151, 8.2–159, 8.2–201, 8.2–291, 8.2–292, 8.2–293, 8.2–310, 8.2–323, 8.3–96, 8.3–146, 8.3–149, 8.3–340, 8.4–81, 8.4–88, 8.4–124, 8.4–160, 8.4–162, 8.4–163, 8.4–321, 8.4–328, 8.4–329, 8.4–342, 8.5–132, 8.5–179, 8.5–180, 8.5–186, 8.5–187, 8.6–11, 8.6–173, 8.6–178, 8.6–179, 8.6–182, 8.6–183, 8.6–184, 8.6–185, 8.6–186, 8.6–187, 8.6–225, 8.6–227, 8.6–228, 8.6–352, 8.6–353, 8.6–355, 8.6–368, 8.7–113, 8.7–154, 8.7–158, 8.7–159, 8.7–162, 8.7–165, 8.7–166, 8.7–324, 8.7–325, 8.8–126, 8.8–155, 8.8–189, 8.8–190, 8.8–192, 8.8–193, 8.8–228, 8.8–308, 8.10–92, 8.10–158, 8.10–197, 8.10–198, 8.10–292, 8.10–295, 8.10–296, 8.10–301, 8.10–302, 8.10–303, 8.11–67, 8.11–68, 8.11–126, 8.11–157, 8.11–161, 8.11–178, 8.11–184, 8.11–261, 8.11–264, 8.11–265, 8.11–273, 8B–121, 8B–122, 8B–130, 8H–26, 8H–113, 8I–96, 8I–142, 8J–22, *see also* p. 259, 410, 549, 689, 1009, 1141, 1278, 1563

Journal of Chemical Physics, [N. Y.], 8.4–147. 8.11–179

Journal of Chinese Meteorology, [Peking], 8C–50

Journal of Colloid Science, [N. Y.], 8.4–326, 8.5–246

Journal of Ecology, [London], 8D–94

Journal of Fluid Mechanics, [London], 8.2–34, 8.2–183, 8.5–91, 8.7–169, 8.8–205

Journal of Forestry, [Wash. D. C.], 8.7–243, 8.11–97, 8D–39, 8D–45, 8D–52, 8D–100, 8D–106, 8G–140

Journal of Geography, [Tokyo], 8.1–60

Journal of Geomagnetism and Geoelectricity, [Kyoto], 8.1–380, 8.1–389, 8.5–330, 8.9–162, *see also* p. 1426

Journal of Geophysical Research, [Wash., D. C.], 8.1–122, 8.1–379, 8.1–383, 8.3–95, 8.3–148, 8.3–229, 8.3–333, 8.4–159, 8.4–164, 8.4–165, 8.4–330, 8.4–337, 8.5–142, 8.5–333, 8.5–341, 8.5–345, 8.7–163, 8.7–225, 8.8–191, 8.8–234, 8.9–93, 8.9–94, 8.9–327, 8.10–16, 8.10–130, 8.10–157, 8.10–298, 8.11–158, 8.11–175, 8.11–277, 8.11–278, 8A–83, 8A–98, 8A–99, 8B–49, 8B–51, 8B–89, 8B–91, 8B–118, 8B–139, 8B–150, 8H–1, 8H–34, 8H–38, 8H–89, 8H–93, 8I–76, 8I–111, 8I–118, 8J–140, *see also* p. 410, 549, 1141, 1278

Journal of Glaciology, [London], 8.2–6, 8.2–44, 8.2–84, 8.2–165, 8.2–172, 8.2–240, 8.2–242, 8.2–266, 8.2–267, 8.2–270, 8.7–74, 8.7–75, 8.7–76, 8.7–77, 8.7–258, 8.7–288, 8.7–305, 8.7–306, 8.7–307, 8.8–48, 8G–146, *see also* p. 689, 1426

Journal of Hygiene, [Cambridge], 8K–144

Journal of Investigative Dermatology, [Baltimore], 8K-44

Journal of Laboratory and Clinical Medicine, 8K–49

Journal of Marine Research, [New Haven, Conn.], 8.1–63, 8.1–70, 8.3–159, 8.3–197, 8.6–78, 8.7–65, 8.8–76, 8.11–56, *see also* p. 1142, 1563

Journal of Meteorological Research, [Tokyo], 8.1–76, 8.1–155, 8.1–164, 8.1–166, 8.1–200, 8.1–203, 8.1–215, 8.1–232, 8.1–240, 8.1–244, 8.1–245, 8.1–246, 8.1–256, 8.1–259, 8.1–285, 8.1–287, 8.1–299, 8.1–300, 8.3–161, 8.3–200, 8.3–214, 8.3–215, 8.3–263, 8.3–266, 8.3–278, 8.4–187, 8.4–228, 8.5–197, 8.5–232, 8.5–233, 8.5–245, 8.5–269, 8.5–273, 8.5–299, 8.5–346, 8.6–117, 8.6–118, 8.6–141, 8.6–158, 8.6–160, 8.6–256, 8.6–267, 8.6–285, 8.6–296, 8.6–311, 8.6–256, 8.7–134, 8.7–317, 8.8–84, 8.8–109, 8.8–154, 8.8–171, 8.8–197, 8.8–200, 8.8–213, 8.9–180, 8.9–183, 8.9–198, 8.9–211, 8.9–224, 8.9–266, 8.9–267, 8.11–99, 8.11–134, 8.11–154, 8.11–201, 8A–109, 8C–20, 8C–46, 8C–51, 8C–60, 8C–69, 8C–71, 8C–98, 8C–106, 8C–108, 8C–109, 8C–114, 8C–129, 8D–88, 8E–1, 8E–14, 8E–16, 8E–17, 8E–21, 8E–26, 8E–27, 8E–28, 8E–29, 8E–30, 8E–37, 8E–39, 8E–41, 8E–49, 8E–87, 8E–92, 8E–96, 8E–97, 8F–50, 8F–91, 8F–92, 8F–119, 8F–141, 8F–163, 8J–113, *see also* p. 131, 259, 848, 1142, 1279, 1426

Journal of Meteorology, [Boston], 8.1–187, 8.2–64, 8.2–92, 8.2–94, 8.2–95, 8.2–120, 8.2–121, 8.2–127, 8.2–135, 8.2–147, 8.2–313, 8.4–82, 8.4–84, 8.4–118, 8.4–137, 8.4–174, 8.4–175, 8.4–182, 8.4–194, 8.5–147, 8.5–149, 8.5–229, 8.5–230, 8.5–244, 8.5–255, 8.5–256, 8.6–132, 8.6–174, 8.6–176, 8.6–190, 8.6–196, 8.6–197, 8.6–209, 8.6–214, 8.6–244, 8.6–268, 8.6–270, 8.6–276, 8.6–282, 8.6–360, 8.8–29, 8.8–45, 8.8–102, 8.8–105, 8.8–116, 8.8–129, 8.8–162, 8.8–196, 8.8–199, 8.8–240, 8.8–242, 8.8–249, 8.8–257, 8.8–264, 8.8–270, 8.10–226, 8.10–242, 8.11–141, 8.11–142, 8.11–151, 8.11–162, 8.11–163, 8.11–170, 8.11–174, 8.11–188, 8.11–195, 8.11–196, 8.11–197, 8.11–206, 8.11–255, 8.11–271, 8A–41, 8A–76, 8A–84, 8E–10, 8E–36, 8F–6, 8F–10, 8F–13, 8F–29, 8F–31, 8F–66, 8F–100, 8F–103, 8F–130, 8F–131, 8F–143, 8F–144, 8F–161, 8G–67, 8G–69, 8G–90, 8G–120, 8G–125, 8G–161, 8G–208, *see also* p. 261, 410, 689, 1009, 1279, 1428

Journal of Physical and Colloid Chemistry, [Wash., D. C.], 8.3–250, 8G–204

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Journal of Scientific and Industrial Research, Sec. B, [New Delhi], 8.8–310, 8.8–316, 8.9–242, 8.10–293

Journal of Scientific Instruments, [London], 8.6–140, 8.7–128

Journal of Soil Science, [Oxford], 8.2–239

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Journal Scientifique de la Météorologie, [Paris], 8.7–124, 8.8–117, 8.9–135, 8.9–196, 8.9–265, 8.11–121, 8F–34, 8I–69, 8I–94, *see also* p. 131, 261, 1280

**Kaiser, T. R. (ed.), Meteors*, pub. London, Pergamon Press, 1955, 8.1–175, 8.1–180, 8.1–254, 8.1–260, 8.1–361, 8.1–362, 8.3–317, 8.3–327, 8.5–318, 8.5–319, 8.5–321, 8.5–322, 8G–154, 8H–51, 8H–55, 8H–57, 8H–58, 8H–61, 8H–63, 8H–64, 8H–65, 8H–66, 8H–68, 8H–69, 8H–75, 8H–77, 8H–108, 8H–111
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**Kuiper, Gerard P. (ed.), The Earth as a Planet*, pub. Univ. of Chicago Press, 1954, 8.1–62, 8.3–94, 8.5–171, 8B–76, 8B–97, 8G–105, 8G–123

Lancet, [London], 8K–134
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Lima, Peru. Universidad Nacional Mayor de San Marcos. Instituto de Geografía, Revista, 8.5–71
Lisbon. Universidade. Faculdade de Ciências, Report, Ser. 2, B, Ciências Físico-Químicas, 8.1–154
Lomnický Štít, Czechoslovakia. Observatoria, Ročenka Poveternostných Pozorovaní, 8.6–127
London. Royal College of Science, Scientific Journal, 8.2–184
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Look, [N. Y.], 8.6–56
Louisiana. State Univ. School of Forestry, Annual Forestry Symposium, 8.11–93
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Low Temperature Science, Ser. B., Biological Sciences, [Sapporo, Japan], 8.4–69
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Malta. [Meteorological Service], Meteorological Observations, 8.1–126
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Mariner's Weather Log, [Wash., D. C.], 8.8–8
Maryland. Univ. Institute for Fluid Dynamics and Applied Mathematics, Lecture Series, 8.3–332
Maryland. Univ. Physics Dept., Technical Report, 8.7–83, 8.7–119, 8.7–207, 8.10–54, 8H–87, 8H–88
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Melbourne, Australia. Aeronautical Research Laboratories, Mechanical Engineering Note, 8.7–266
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Meteorological Papers (of N. Y. University), see under *N. Y. Univ. College of Engineering*
Meteorological Society for Research of Tohoku District, Bulletin, see *Sendai, Japan. Central Meteorological Observatory, Bulletin of the Meteorological Society for Research of Tohoku District*
Meteorological Society of Japan, Tokyo, Journal, 8.1–108, 8.1–376, 8.4–133, 8.4–136, 8.4–219, 8.4–225, 8.6–138, 8.7–167, 8.7–189, 8.7–285, 8.7–286, 8.8–169, 8.8–253, 8C–25, 8D–70, 8E–2, 8E–11, 8E–23, 8E–24, 8F–48, 8F–49, 8F–50, 8F–72, 8F–74, 8F–77, 8F–105, 8F–108, 8F–120, 8F–121, 8F–155, 8F–158, 8G–71, 8G–70, *see also* p. 132, 262, 1144, 1280
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National Research Council of Canada. Associate Committee on Soil and Snow Mechanics, Technical Memorandum, 8.6–305

National Research Council of Canada. Div. of Building Research, Research Paper, 8.3–192, 8.3–193

Nature, [London], 8.1–32, 8.1–57, 8.1–71, 8.1–80, 8.1–97, 8.1–112, 8.1–113, 8.1–381, 8.2–7, 8.2–13, 8.2–14, 8.2–19, 8.2–28, 8.2–33, 8.2–41, 8.2–43, 8.2–46, 8.2–47, 8.2–54, 8.2–81, 8.2–88, 8.2–103, 8.2–105, 8.2–152, 8.2–164, 8.2–173, 8.2–182, 8.2–199, 8.2–234, 8.2–235, 8.2–247, 8.2–251, 8.2–254, 8.2–255, 8.2–271, 8.2–279, 8.2–281, 8.2–282, 8.2–284, 8.2–295, 8.2–298, 8.2–303, 8.2–304, 8.2–309, 8.2–314, 8.2–317, 8.2–325, 8.3–58, 8.3–147, 8.3–180, 8.4–44, 8.4–125, 8.4–152, 8.4–248, 8.4–251, 8.4–260, 8.4–333, 8.5–54, 8.5–65, 8.5–170, 8.5–177, 8.5–216, 8.5–271, 8.6–226, 8.6–229, 8.7–35, 8.7–54, 8.7–129, 8.7–137, 8.7–145, 8.7–160, 8.7–161, 8.7–196, 8.7–209, 8.7–260, 8.7–318, 8.7–323, 8.7–337, 8.8–49, 8.8–51, 8.8–54, 8.8–55, 8.8–67, 8.8–68, 8.8–111, 8.8–151, 8.8–156, 8.8–222, 8.8–300, 8.9–97, 8.9–300, 8.10–38, 8.10–39, 8.10–45, 8.10–69, 8.10–89, 8.10–159, 8.10–275, 8.11–20, 8.11–22, 8.11–37, 8.11–60, 8.11–69, 8.11–182, 8A–111, 8F–99, 8H–36, 8H–52, 8H–71, 8H–92, 8H–96, 8H–109, 8I–48, 8I–65, 8I–86, 8I–90, 8J–5, 8J–166, 8K–45, *see also p.* 134, 412, 696

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Naturwissenschaften, [Berlin], 8.1–225, 8.2–321, 8.4–310, 8.5–323, 8.5–332, 8.6–107, 8.7–123, 8.7–304, 8.8–77, 8.8–315, 8.10–84, 8.11–43, 8.11–279, 8B–75, 8H–83, 8K–25, 8K–90, 8K–127

Naturwissenschaftliche Rundschau, [Stuttgart], 8.3–144, 8.4–235, 8.4–296, 8.6–34, 8.6–105, 8.7–81, 8.7–96, 8.7–213, 8.7–298, 8.8–80, 8.8–94, 8.11–115, 8A–81, 8K–9

Naturwissenschaftlicher Verein, Bremen, Abhandlungen, 8.9–33

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Nautical Magazine, 8.2–29

Navigation, [Los Angeles], 8.1–33, 8.1–103, 8.3–78, 8.4–62, 8.8–236, *see also* p. 697

Nederlands Tijdschrift voor Natuurkunde, 8I–78

Netherlands. Meteorologisch Instituut, Mededeelingen en Verhandlingen, (*Ser. A*), 8.8–25, 8.10–20, 8D–62, 8.11–12

Netherlands. (*K.*) *Meteorologisch Instituut, Opstellen op Oceanografisch Gebied*, 8.9–3

Netherlands. Meteorologisch Instituut, Meteorologische en Oceanografische Waarnemingen Verricht aan Boord van Nederlandse Lichtschepen in de Noordzee, 8.8–24

New England Journal of Medicine, 8K–102

New Mexico. State Engineer Office, Technical Report, 8.10–260, 8.10–261

New York Academy of Sciences, Transactions, 8.6–198, 8.10–123, 8A–116, 8.E–81, 8F–89, 8F–129, 8F–145

New York State Journal of Medicine, 8K–79

New York Times Magazine, 8.10–128, 8F–40

New York Univ. College of Engineering, Meteorological Papers, 8.5–99, 8.9–28, 8.9–220

New Zealand. Meteorological Service, Technical Note, 8.3–203, 8.3–231, 8.4–242, 8.7–97, 8.11–146, 8C–42, 8C–65, 8C–66, 8C–82, 8C–99, 8F–42, 8F–68

Norske Institutt for Kosmisk Fysikk, Publikasjoner, 8.1–114
Norske Videnskaps-Akademi i Oslo. Institutt vor Vaer- og Klimaforskning, Publication, 8.6–193, 8A–79
Norske Videnskaps-Akademie i Oslo. Institutt for Vaer- og Klimaforskning, Report, 8.4–169, 8.4–318, 8.4–324, 8.5–192, 8F–38, 8F–44, 8F–93, 8F–104, *see also* p. 697
North Atlantic Treaty Organization. Advisory Group for Aeronautical Research and Development, AGARDograph, see *AGARDograph*, [Paris]
North Carolina. Agricultural Experiment Station, Bulletin, 8.3–288
North-East Japan Researches, 8E–98
Norway. Meteorologiske Institutt, Nedbøriakttagelser i Norge, 8.1–127
Norway. Meteorologiske Institutt, Norsk Meteorologisk Årbok, 8.1–128
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Norwegian-British-Swedish Anarctic Expedition, 1949–1952, Scientific Results, 8.9–21, 8G–166
Nucleonics, [N. Y.], 8.8–103
Nuovo Cimento, [Bologna], 8B–18
Nyasaland. [Meteorological Service], Meteorological Observations, 8.1–130

Observatory, [London], 8.2–213
Oceanographical Society of Japan, Journal, 8E–114, *see also* p. 135
Oceanography and Meteorology, [Nagasaki], 8.3–187, 8.5–269, *see also* p. 263
Oceanus, [Woods Hole, Mass.], 8.3–221, 8.7–263
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Ohio Journal of Science, [Columbus], 8D–71
Oklahoma City Times, 8.1–212
Onde Électrique, [Paris], 8I–45, 8J–158, 8J–185, 8J–187
Ondřejov. Astrofysikální Observatoř, Publikace, 8.1–199, 8A–93
Oporto, Portugal. Universidade. Instituto Geofísico, Anais Actinométricos, 8,8–220
Oporto, Portugal. Universidade. Instituto Geofísico, Observaç~es do Campo Eléctrico da Atmosfera, 8.8–307
Optical Society of America, Journal, 8.1–365, 8.3–174, 8.3–179, 8.3–182, 8.3–322, 8.3–337, 8.5–324, 8.6–286, 8.6–370, 8.8–223, 8.8–301, 8.8–302, 8.10–283, 8B–144, 8G–12, 8G–57, 8G–92, 8G–97, 8G–100, 8G–127, 8G–144, 8G–148, 8G–155, 8G–158, 8G–190, 8G–193, 8G–203, 8G–209, *see also* p. 135, 850
Oslo. Universitet. Institutt for Teoretisk Astrofysikk, Publication, 8.6–193
Osterreichische Botanische Zeitschrift, [Vienna], 8D–34
Ottawa. Defence Research Telecommunications Establishment. Radio Physics Laboratory, Project Report, 8J–85
Pacific Science Congress, Proceedings, see p. 1433
Paper in Meteorology and Geophysics, [Tokyo], 8.1–291, 8.1–347, 8.4–188, 8.6–361, 8.8–252, 8E–109, 8F–71, 8F–79, 8F–84, 8J–26, 8J–27, *see also* p. 553, 850, 1284
Papers in Physical Oceanography and Meteorology, [Cambridge, Mass.], 8I–22
Pelotas, Rio Grande do Sul, Brasil. Instituto Agronômico do Sul, Boletím Têcnico, 8.1–342
Petermanns Geographische Mitteilungen, [Gotha], 8.1–328, 8.2–31, 8.2–261, 8.2–269, 8.6–50, 8.7–45, 8.7–214, 8.8–23, 8.8–73, 8.9–81, *see also* p. 1563
Petermanns Geographische Mitteilungen, Ergänzungsheft, 8.11–254
**Petterssen, Sverre, (ed.), Studies in Weather Analysis and Forecasting*, pub. 1957, see p. 850
Philippines. Weather Bureau, The Elements, 8.3–334, 8.6–119, 8E–7
Philips Technical Review, [Eindhoven, Netherlands], 8J–8
Philosophical Magazine, [London], 8.1–226, 8.2–160, 8.2–162, 8.2–272, 8.4–245, 818–224, 8.8–225, 8.11–183, 8H–8, 8H–11, 8B–13
Physica, [Amsterdam], 8J–44
Physical Review, [N. Y.], 8.3–342, 8.5–334, 8.10–132, 8B–132, 8G–104, 8G–141, 8G–207, 8H–5, 8I–21, 8I–103, 8J–172
Physical Society of London, Proceedings, 8H–10, 8I–46
Physical Society of London, Proceedings, Sec. A, 8.7–205, 8.8–226, 8.8–227
Physical Society of London, Proceedings, Sec. B, 8.4–143, 8.5–185, 8.7–155, 8H–78, 8I–92, 8I–120, 8I–138, *see also* p. 265
Physical Society of London, Reports on Progress in Physics, 8B–21, 8B–56
Physical Society of Japan, Journal, 8J–120
Physics Today, [N. Y.], 8.4–59, 8.5–39, 8.7–49
Physiological Reviews, [Wash., D. C.], 8.11–112
Physiological Society (London), Monographs, 8K–23
Photographie und Wissenschaft, 8.4–320
Plant Pathology, [Harpenden], 8.8–89
Planta, [Berlin], 8D–17
Pochvovedenie, [Moscow], 8.1–305, 8.6–310, 8D–69
Poland. Pánstwowy Instytut Hydrologiczno-Meteorologiczny, Wiadomósci Sluzby, 8.1–148, 8.7–257, 8.9–245
Polar Record, [Cambridge], 8.2–4, 8.2–5, 8.2–8, 8.2–11, 8.2–12, 8.6–43, 8.6–44, 8.6–46, 8.6–47, 8.6–48, 8.6–52, 8.6–55, 8.6–59, 8.9–62, 8.9–34, 8.9–59, 8.9–87, *see also* p. 413
Polarforschung, [Kiel], 8.5–73, 8.5–74, 8.5–105, 8.7–47, 8.8–43
Porton, England. Chemical Defence Experimental Establishment, Porton Technical Paper, 8.2–181, 8.6–25, 8.6–249, 8.9–134
Portugal. Serviço Meteorológico Nacional, RT, 8C–127
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Pure and Applied Mathematics, [N. Y.], 8I–114
Puy-de-Dôme. Observatoire, Bulletin, Ser 2, 8.3–252, 8.4–123, 8.4–141, 8.4–265, 8.7–265, 8.11–210, 8H–98, 8H–117, *see also* p. 555, 1434
Puy-de-Dôme. Observatoire, Publications, 8.5–252

QST, [West Hartford, Conn.], 8.1–207, 8J–76

Radio, [Moscow?], 8J–53
Radiotekhnika, [Moscow], 8J–149
Radiotekhnika i Elektronika, [Moscow], 8J–179, 8J–181, 8J–183
Rand Corporation, Santa Monica, Calif., Papers, 8.9–60, 8H–42
Rand Corporation, Santa Monica, Calif., Research Memorandum, 8.6–188
Reclamation Era, [Wash., D. C.], 8.9–249
Records of Oceanographic Works in Japan, [Tokyo], 8.6–77, 8.6–240, 8.7–244
Referativnyĭ Zhurnal, [Moscow], 8.4–2
Refrigerating Engineering, [N. Y.], 8.7–311
Researches on Snow and Ice, [Tokyo], 8.3–273, 8.5–277, 8.5–278, 8.7–287, 8C–96, 8G–147
Review of Scientific Instruments, [N. Y.], 8.3–107, 8.3–113, 8.4–112, 8.5–153, 8.7–202, 8.7–284, 8G–157
Reviews of Modern Physics, [Lancaster, Pa.], 8B–11, 8H–7
Revista Brasileira de Geografia, [Rio de Janeiro], 8.4–176, 8.5–307, 8.7–58
Revista de Geofísica, [Madrid], 8.1–42, 8.4–195, 8.6–36, 8.6–204, 8.7–59, 8.8–194, 8.9–247, *see also* p. 265, 1013
Revista de Investigationes Agrícolas, [Buenos Aires], 8.1–331
Revista Geográfica de Chile, [Santiago de Chile], 8.5–36, 8.5–67
Revista Meteorológica, [Montevideo], 8.1–31, 8.3–40, *see also* p. 413
Revista Meteorológica del Peru, [Lima], 8.3–81, 8.3–300, 8C–118, 8F–127, 8H–25, *see also* p. 556, 1564
Revue de Géographie Alpine, [Grenoble], 8.6–122, 8.10–210
Revue Romande d'Agriculture de Viticulture et d'Arboriculture, [Lausanne], 8.1–326
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Rhodesia Agricultural Journal, [Salisbury], 8.6–315
Ricerca Scientifica, [Rome], 8A-11
Rivista di Meteorologia Aeronautica, [Rome], 8.1–170, 8.1–193, 8.1–198, 8.1–317, 8.3–248, 8.4–243, 8.4–316, 8.5–141, 8.7–52, 8.8–60, 8.8–288, 8.10–50, 8.10–106, 8.10–109, 8.10–171, 8.10–195, 8.10–262. 8A–48, 8C–3, 8H–99, *see also* p. 136, 265, 697, 1013, 1564
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Royal College of Science, London, see *London. Royal College of Science*
Rothamsted, England. Experimental Station, Report, 8.4–72, 8.4–100
Rough Notes, [Indianapolis], 8.1–252
Royal Astronomical Society, Monthly Notices, 8.7–153, 8.7–157, 8.7–329, 8H–6, 8H–71, 8H–49
Royal Astronomical Society, Monthly Notices, Geophysical Supplement, 8.8–296
Royal Astronomical Society of Canada, Journal, 8A–17, 8A–18, 8H–4
Royal Astronomical Society of Canada, Observer's Handbook, 8H–72
Royal Institute of British Architects, London, Journal, 8.2–273
Royal Institution of Great Britain, Proceedings, 8I–5
Royal Irish Academy, Proceedings, Sec. A, 8.6–277
Royal Meteorological Society, Memoirs, 8A–86
Royal Meteorological Society, Quarterly Journal, 8.1–64, 8.2–1, 8.2–65, 8.2–76, 8.2–77, 8.2–82, 8.2–102, 8.2–106, 8.2–119, 8.2–124, 8.2–141, 8.2–174, 8.2–186, 8.2–191, 8.2–193, 8.2–203, 8.2–204, 8.2–215, 8.2–224; 8.2–237, 8.2–260, 8.2–311, 8.2–322, 8.4–20, 8.4–178, 8.4–248, 8.4–254, 8.4–259, 8.4–261, 8.5–66, 8.6–245, 8.6–247, 8.6–275, 8.6–358, 8.7–6, 8.7–55, 8.8–1, 8.8–17, 8.8–150, 8.8–161, 8.8–168, 8.8–179, 8.8–180, 8.8–187, 8.8–232, 8.8–233, 8.8–258, 8.8–259, 8.8–260, 8.8–262, 8.8–263, 8.8–309, 8.10–43, 8.10–50, 8.10–71, 8.10–85, 8.10–101, 8.10–131, 8.10–137, 8.10–143, 8.19–151, 8.10–161, 8.10–199, 8.10–201, 8.10–202, 8.10–219, 8.10–235, 8.10–244, 8.10–289, 8.11–2, 8.11–236, 8A–2, 8A–6, 8A–102, 8D–97, 8F–22, 8F–23, 8F–24, 8F–99, 8G–17, 8G–54, 8G–83, 8G–98, 8I–35, 8J–9, *see also* p. 414, 556, 852, 1284

Royal Meteorological Society. Canadian Branch, [Publications], 8.3–53, 8.5–115, 8.6–42, 8.6–320, 8.8–20, 8.11–117, 8D–78, 8F–17, 8F–56
Royal Society of Canada, Ottawa, Transactions, 8.1–312, 8.3–218
Royal Society of London, Philosophical Transactions, Ser. A, 8.5–188, 8.6–130
Royal Society of London, Proceedings, Ser. A, 8.2–132, 8.2–319, 8.5–3, 8.5–336, 8.8–30, 8B–1, 8B–95, 8G–171
Royal Society of New Zealand, Transactions, 8I–57, 8I–72
Russell, Pamela and Ballabon, Maurice B. (eds.), Informal Papers in Arctic Meteorology, pub. 1955, 8.3–30, 8.4–179, 8.5–2, 8.8–125, 8.9–281

Sailplane and Gliding, [London], 8.7–252
Sales Management, [Chicago], 8C–131
Sammlung die Universität, [Stuttgart], 8.4–8
Sapporo, Japan. Hokkaido Univ. Faculty of Science, Geophysical Bulletin, 8.9–263, 8E–45
Saturday Evening Post, [Philadelphia], 8A–50
Schweizerische Centralanstalt für das Forstliche Versuchswesen, Zürich, Mitteilungen, 8D–7, 8D–40, 8D–64
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Science, [Wash., D. C.], 8.1–83, 8.2–39, 8.3–65, 8.3–106, 8.3–319, 8.4–7, 8.5–54, 8.5–79, 8.5–125, 8.5–126, 8.5–127, 8.5–128, 8.5–309, 8.6–1, 8.6–53, 8.8–72, 8.8–75, 8.8–99, 8.8–100, 8.8–106, 8.8–108, 8.9–108, 8.9–290, 8.9–316, 8.10–37, 8.10–52, 8G–94, 8H–45, 8H–84, 8K–41
Science and Culture, [Calcutta], 8.3–55, 8.4–257, 8.5–87, 8.5–183, 8.6–335
Science News Letter, [Wash., D. C.], 8.3–254, 8.3–348, 8.8–100, 8C–64, 8F–85
Science Progress, [London], 8.2–21, 8.2–318, 8.5–84, 8.5–335, 8.10–284, 8.11–53, 8B–50
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Scientific American, [N. Y.], 8.1–111, 8.4–57, 8.4–301, 8.4–314, 8.4–325, 8.4–339, 8.5–121, 8.6–100, 8.9–66, 8B–120, 8H–47, 8J–174
Scientific Monthly, [N. Y.], 8.3–114, 8.3–301, 8.7–15, 8.8–42, 8.10–120, 8.11–42
Scottish Geographical Magazine, [Edinburgh], 8.2–9, 8.2–257, 8.4–283, 8.4–295, 8.4–300, 8.7–211, 8.8–132
Seewart, [Hamburg], 8.9–30, 8.9–222, 8C–36
Semaine des Hopitaux (Pathologie et Biologie), see p. 852
Sendai, Japan. Central Meteorological Observatory, Bulletin of the Meteorological Society for Research of Tohoku District, 8.1–237, 8.1–244, 8.1–299, 8.4–228, 8.5–304, 8.7–317, 8C–129, 8E–1, 8E–29, 8E–78, 8E–96
Seppyo (Snow and Ice), [Tokyo], 8.1–38, 8.1–100, 8.1–294, 8.1–295, 8.3–195, 8.3–272, 8.3–273, 8.5–274, 8.6–307, 8.11–180, 8.11–241, 8.11–244, 8C–94, 8C–95, 8E–48, 8J–147, *see also* p. 556
Shell Aviation News, [London], 8.2–129, 8.6–49, 8A–49
Ship and Maritime Meteorology, [Tokyo], see p. 1564
Sierra Leone. Meteorological Service, Annual Summary of Observations, 8.1–131
Sky and Telescope, [N. Y.], 8.3–335
Smithsonian Contributions to Astrophysics, [Wash., D. C.], see p. 1434
Smithsonian Institution, Wash., D. C., Annual Report, 8.4–317, 8A–20, 8A–24
Smithsonian Institution, Wash., D. C., Astrophysical Observatory, Annals, 8G–183
Smithsonian Miscellaneous Collections, [Wash., D. C.], 8A–1, 8A–14, 8A–25, 8A–36, 8A–53, 8A–54, 8A–57, 8A–63, 8A–68, 8A–73, 8A–74, 8A–91, 8A–92, 8G–3, 8G–184, 8H–9
Smokeless Air, [London], 8.2–51, 8.5–52, 8.2–53, 8.2–55, 8.2–56, 8.3–254, 8.4–153, 8.4–155, 8.4–157, 8.7–144, 8.7–147, 8.7–150, 8.7–151, 8.8–92, 8.8–93, 8.9–153, 8.11–40, 8.11–109, *see also* p. 697
Snow and Ice, [Tokyo], see *Seppyo (Snow and Ice)*, [Tokyo]
Sociedad Científica Argentina, Buenos Aires, Anales, 8.9–37
Società Geografica Italiana, Rome, Bolletino, 8.1–353, 8.11–41
Société de Géographie d'Égypte, Bulletin, 8.3–257
Société Hydrotechnique de France, Mémoires et Travaux, 8E–73
Société Royale des Sciences de Liège, Mémoires, 8B–61, 8B–66, 8B–67, 8B–72, 8B–74, 8B–77, 8H–42, *see also* p. 1561
Société Vaudoise des Sciences Naturelles, Lausanne, Bulletin, 8.8–214
Soil Science, [Baltimore, Md.], 8.3–208
Soils and Fertilizers, [Farnham Royal], 8.2–211
Solar Eclipses and the Ionosphere, London, Aug. 1955, pub. London, Pergamon, 1956, 8.8–5 *see also* p. 1014
Sonnblick-Verein, Vienna, Jahresbericht, 8.1–35, 8.1–82, 8.1–310, 8.3–369, 8.4–306, 8.8–277
South Africa. Weather Bureau, Notos, 8.1–125, 8.1–205, 8.1–354, 8.4–103, 8.4–210, 8.4–271, 8.5–123, 8.6–80, 8.6–205, 8.6–243, 8.8–121, 8G–124, *see also* p. 698, 1015
South African Forestry Association, Pretoria, Journal, 8.5–242, 8.9–104
South African Geographical Journal, [Johannesburg], 8.9–169
South African Journal of Science, [Johannesburg], 8I–125, 8K–86
Soviet Research in Physics, [Consultants Bureau, N. Y.], 8.6–365
Spain. Consejo Superior de Investigaciones Científicas. Comisión Nacional de Energia Eolica, Informe, 8.3–16
Spain. Servicio Meteorológico Nacional, Publicaciones, Serie A, Memorias, 8.1–168
Srpska Akademija Nauk, Belgrade, Posebna Izdanja, 8G–191
Star, [Wash., D. C.], 8.1–102, 8.6–230

Statens Skogsforskningsinstitut, Meddelanden, 8.9–303
Strasbourg. Université. Institut de Physique du Globe, Annales, n.s., Pt. 3. Géophysique, 8.3–271, 8G–32
Studia Geophysica et Geodaetica, [Prague], see p. 1565
Sudan. Meteorological Service, Pamphlet, 8.9–218
Sun at Work, [Phoenix], 8.6–57
Suomalainen Tiedeakatemia, Helsinki, Toimituksia (Annales), Ser. A, 8.10–17
Svenska Vetenskapsakademien, Stockholm, Handlingar, 8.7–19
Sweden. Geologiska Undersökning, Stockholm, [Publications], Ser. C, Avhandlingar och Uppsatser, 8.1–322
Switzerland. Eidg. Kommission zum Studium der Hagelbildung und Hagelabwehr, Tätigkeitsbericht, 8.7–24
**Symposium on Artificial Rain, New Delhi, Feb. 1953, Proceedings and Papers*, pub. 1955, 8.1–3, 8.3–130, 8.3–243, 8.3–255, 8.3–267, 8.4–145, 8.6–290, *see also* p. 137

Taipei. National Taiwan Univ. Fu-Min Geographical Institute of Economic Development, Research Report, 8.9–24
Taiwan Univ., see *Taipei. National Taiwan Univ.*
Tateno, Japan. Aerological Observatory, Journal, 8.3–145, 8.4–184, 8.4–244
Technik, [Berlin], 8.9–279
Technische Mitteilungen des Instrumentenwesens des Deutschen Wetterdienstes, see title under *Germany. Deutscher Wetterdienst. Instrumentenemt Hamburg*
Tekniska Föreningens i Finland, Förhandlingar, 8.9–252
Tellus, [Stockholm], 8.1–66, 8.1–144, 8.1–153, 8.1–202, 8.1–388, 8.3–132, 8.3–139, 8.3–155, 8.4–161, 8.4–331, 8.5–96, 8.6–293, 8.7–168, 8.7–173, 8.7–204, 8.8–38, 8.8–178, 8.8–267, 8.8–292, 8.9–165, 8.9–239, 8.10–31, 8.10–72, 8.10–78, 8.10–80, 8.10–94, 8.10–139, 8.10–163, 8.10–174, 8.10–209, 8.10–225, 8.10–230, 8.11–54, 8.11–61, 8.11–233, 8.11–266, 8F–1, 8F–2, 8F–7, 8F–8, 8F–9, 8F–11, 8F–15, 8F–16, 8F–27, 8F–35, 8F–45, 8F–53, 8F–73, 8F–88, 8F–98, 8F–106, 8F–117, 8F–123, 8F–124, 8F–133, *see also* p. 266, 698, 1015, 1434
Terapevticheskiĭ Arkhiv, [Moscow], 8K–27
Természet és Technika, (Budapest], 8.6–89
Terra, [Helsinki], 8.4–297
Terrestrial Magnetism and Atmospheric Electricity, [Wash., D. C.], see *Journal of Geophysical Research*, [Wash.. D. C.]
Texas. Agricultural Experiment Station, College Station, Bulletin, 8.8–91
Texas. Univ. Bureau of Engineering Research, Special Publication, 8.3–61
Thessalonike. Panepistemion. Ergastērion Meteōroliaš, Meteorologika, 8.3–100
Time, [N. Y.], 8.6–56
Tohoku, Japan. Electric Power Company, Report of Artificial Rain-making, 8.7–142
Tôhoku. Univ., Science Reports, 5th Ser., Geophysics, 8.1–85, 8.1–189, 8.3–239, 8.3–253, 8.7–194, 8.7–195, 8.7–264, *see also* p. 266, 1145
Tokyo. Forest Experiment Station, Bulletin, 8.5–238, 8.7–125, 8D–81
Tokyo. Ochanomizu Univ., Natural Science Report, 8.4–223
Tokyo. Univ. Astronomical Observatory, Annals, 8B–86
Tokyo. Univ. Earthquake Research Institute, Bulletin, 8.4–115
Tokyo. Univ. Geophysical Institute, Geophysical Notes, see p. 1285
Tokyo. University of Education. Institute for Optical Research, Science of Light, 8.1–219, 8.3–111, 8B–107
Trans World Airlines, K. C., Mo., Meteorological Technical Bulletin, 8.1–182, 8.4–202, 8.5–102, 8.10–185, 8A–46, 8A–47, 8A–80, 8A–95, 8A–115, 8C–12, 8C–13, 8C–14, 8C–15, 8C–16, 8C–17, 8C–18
Tree Ring Bulletin, [Tucson], 8.9–289, 8.9–291, 8.9–303
Trieste. Istituto Geofisico, Pubblicazioni, 8.1–320
Trieste. Istituto Sperimentale Talassografico, Pubblicazioni, 8.4–286, 8.5–296, 8A–29
**Tropical Cyclone Symposium, Brisbane, 1956, Proceedings*, pub. 1956, see p. 1016
Türk Coğrafya Dergesi, [Ankara], 8.6–337
Tunis. Direction des Travaux Publics, Études, Ser. 1, Hydraulique et Hydrologie, 8.5–259
Tunis. Service Météorologique, Études Météorologiques, 8.3–24

Umschau, [Frankfurt a.M.], 8.1–167, 8.1–178, 8.1–223, 8.1–227, 8.1–308, 8.2–16, 8.2–20, 8.2–35, 8.2–37, 8.2–49, 8.2–157, 8.2–175, 8.2–228, 8.2–250, 8.2–299, 8.4–33, 8.4–92, 8.4–93, 8.6–31, 8.6–32, 8.6–84, 8.7–80, 8.7–132, 8.7–138, 8.7–216, 8.7–275, 8.8–37, 8.8–95, 8.9–40, 8.10–82, 8.10–99, 8.10–160, 8.11–2, 8.11–46, 8.11–72, 8.11–100, 8.11–156, 8G–176
Unasylva, [Rome], 8.10–65
United Air Lines, Inc., Denver, Colo., Meteorology Circular, 8.4–279, 8.5–29, 8.7–89, 8C–70
United Nations, Technical Assistance Programme, TAA, 8.3–80, 8.5–52
UNESCO, Arid Zone Research, 8.1–334, 8.1–335, 8.1–337, 8.3–302, 8.3–303, *see also* p. 1146
United Nations. Economic Commission for Asia and the Far East, Flood Control Series, 8.6–6, 8.7–295
U. S. Advisory Committee on Weather Control, Technical Report, 8.10–247
U. S. Air Force, AF Manual, 8.4–54
U. S. Air Force, AF Technical Report, 8I–122
U. S. Air Force. Cambridge Research Center, Air Force Surveys in Geophysics, 8.1–116, 8.1–143, 8.1–382, 8.3–18, 8.3–220, 8.4–14, 8.4–146, 8.5–15, 8.9–27, 8.10–25, 8.11–10, 8J–2, 8J–72

U. S. Air Force. Cambridge Research Center, Geophysical Research Papers, 8.3–21, 8.3–249, 8.3–250, 8.3–328, 8.4–185, 8.5–16, 8.5–22, 8.5–24, 8.5–331, 8.6–28, 8.6–194, 8B–93, 8B–94, 8B–102, 8B–105, 8B–109, 8B–112, 8C–138, 8F–52, 8G–170, 8J–125, 8J–141

U. S. Air Force. Cambridge Research Center. Research Services Division, Progress Report, 8.5–68

U. S. Air Force. Third Air Weather Group, Ent Air Force Base, Colorado Springs, Technical Paper, 8I–146, 8J–12, 8J–13

U. S. Air Weather Service, Manual, 8.1–91, 8.4–14, 8.8–82, 8.11–78, 8C–31, 8C–135

U. S. Air Weather Service, Technical Report, 8.6–146, 8.9–237, 8.10–200, 8.10–227, 8.10–280, 8C–22, 8C–79, 8C–110, 8C–111, 8C–112, 8F–135

U. S. Arctic, Desert and Tropic Information Center, ADTIC Publication, 8G–156, 8J–33

U. S. Army, Technical Manual, 8J–36

U. S. Atomic Energy Commission, [Reports], 8.6–26, 8.7–232

U. S. Beach Erosion Board, Technical Memorandum, 8.1–67, 8.3–228, 8.6–79

U. S. Coast and Geodetic Survey, Special Publication, 8.9–84

U. S. Coast Guard, Bulletin, 8.6–82

U. S. Corps of Engineers, Snow Investigations, Research Note, 8.1–325, 8D–63, 8D–75, 8D–87, 8E–62, 8E–63, 8G–78, 8G–99, 8G–114

U. S. Corps of Engineers, Technical Memorandum, 8E–110

U. S. David W. Taylor Model Basin, Caderock, Md., AERO Report, 8.11–198

U. S. Dept. of Agriculture, Yearbook, 8.5–130, 8.6–93, 8.6–108, 8.6–317, 8.6–318, 8.6–319, 8.7–97, 8.7–297, 8.8–235, 8.10–255, 8E–121

U. S. Dept. of State, Bulletin, 8.7–38

U. S. Dept. of the Army. Army Library, Special Bibliography, 8.8–81

U. S. Dugway Proving Ground, Symposium on Micrometeorology Turbulent Diffusion, 1954. see p. 557

U. S. Dugway Proving Ground. Cloud Physics Branch, Scientific Report, 8.6–121

U. S. Forest Service. Intermountain Forest and Range Experiment Stations, Miscellaneous Publication, 8.1–352, 8.7–104

U. S. Forest Service. Northern Rocky Mt. Forest and Range Experiment Station, Hi-lites, 8D–67

U. S. Forest Service. Pacific Northwest Forest and Range Experiment Station, Portland, Oregon, Research Notes, 8D–59

U. S. Forest Service. Rocky Mountain Forest and Range Experiment Station, Ft. Collins, Colo., Station Paper, 8.11–243

U. S. Forest Service. Southeastern Forest Experiment Station, Station Paper, 8.4–292, 8D–80, 8D–82

U. S. Geological Survey, Circular, 8.9–272

U. S. Hydrographic Office, H. O. Misc., 8.9–89

U. S. Hydrographic Office, Technical Report, 8E–107

U. S. Joint GRD-AWS Numerical Prediction Project, Report of Progress, 8F–136

U. S. Joint Numerical Weather Prediction Unit, Technical Memorandum, 8F–3, 8F–4, 8F–111, 8F–112, 8F–113, 8F–114, 8F–125, 8F–126, 8F–132

U. S. National Advisory Committee for Aeronautics, Research Memorandum, 8.6–248, 8.6–283

U. S. NACA, Technical Note, 8.1–87, 8.1–88, 8.1–89, 8.1–275, 8.6–303, 8.6–371, 8.8–251, 8.11–73

U. S. National Bureau of Standards, NBS Circular, 8.3–60, 8J–54

U. S. National Bureau of Standards, Journal of Research, 8A–64, 8G–52, 8J–23, 8J–24, 8J–32, 8J–79, 8J–89

U. S. National Bureau of Standards, NBS Report, 8.8–317, 8B–160, 8J–6, 8J–66, 8J–139, 8J–150, 8J–154, 8J–156, 8J–170, 8J–171, 8J–177, 8J–178, 8J–182, 8J–184, 8J–190

U. S. National Commission for UNESCO, National Conference, (Documents), 8.9–43

U. S. Naval Medical Research Institute, Bethesda, Research Report, 8.4–60, 8G–117

U. S. Naval Ordnance Test Station, Inyokern, California, NOTS TM, 8C–61

U. S. Naval Ordnance Test Station, NAVORD, 8.4–246, 8.11–150, 8G–116

U. S. Naval Research Laboratory, NRL Memorandum Report, 8.8–96

U. S. Naval Research Laboratory, NRL Report, 8.4–107, 8.4–206, 8.4–241

U. S. Navy Electronics Laboratory, San Diego, NEL Report, 8J–17, 8J–37, 8J–132, 8J–142, 8J–152, 8J–160

U. S. Navy Electronics Laboratory, San Diego, Calif., Research Report, 8.1–393, 8.8–107, 8H–90, 8J–129

U. S. Navy. Fleet Weather Central, Miami, Florida, OPNAV Report, 8.11–16

U. S. Office of Naval Operations, NAVAER, 8.5–81, 8.9–13, 8C–67, 8F–137, 8J–116

**U. S. Office of Naval Research, Symposium on the Use of Models in Geophysical Fluid Dynamics*, 8.8–6, *see also* p. 1146

U. S. Public Health Service, Public Health Reports, 8.9–154, 8.10–83

U. S. Quartermaster Corps. Research and Development Center. Environmental Protection Research Div., Memorandum Report, 8.1–34

U. S. Quatermaster Corps. Research and Development Center, Environmental Protection Research Div., Report, 8.1–343, 8.9–217

U. S. Quartermaster Corps. Research and Development Center, Environmental Protection Research Div., Research Study, 8.6–332

U. S. Quartermaster Corps. Research and Development Center, Environmental Protection, Research Div., Special Report, 8.3–289, 8.4–304

U. S. Quartermaster Corps. Research and Development Center, Environmental Protection Research Div., Technical Report, 8.7–316

U. S. Signal Corps Engineering Labs., Ft. Monmouth, N. J., Technical Memorandum, 8.4–25
U. S. Soil Conservation Service, Circular, 8E–103
U. S. Soil Conservation Service, Snow Run-off Forecasts, 8E–64
U. S. Snow, Ice and Permafrost Research Establishment, Bibliography on Snow, Ice and Permafrost, 8.1–55, 8G–211
U. S. Snow, Ice and Permafrost Research Establishment, Translation, 8.3–195, 8.6–83, 8G–41
U. S. Typhoon Post Analysis Board, Guam, Annual Report, 8.5–198
U. S. Weather Bureau, Aviation Series, 8.4–64
U. S. Weather Bureau, Forecasting Guide, 8C–37
U. S. Weather Bureau, Hydrometeorological Report, 8.7–20
U. S. Weather Bureau, National Hurricane Research Project Bimonthly Progress Reports, 8.9–46
U. S. Weather Bureau, National Hurricane Research Project Report, 8.10–23, 8.10–75, 8F–61, 8F–153
U. S. Weather Bureau, Report R. P., 8I–20
U. S. Weather Bureau, W.B. Map, 8.3–51
U. S. Weather Bureau, Weekly Weather and Crop Bulletin, 8.1–306. 8.6–88, 8.7–1, 8.11–231
U. S. White Sands Signal Corps Agency, Electromagnetic Radiation through the Atmosphere, Progress Report, 8J–186
U. S. Wright Air Development Center, Wright-Patterson Air Force Base, Ohio, Technical Report, 8G–168
Upper Missouri River Water Forecast Committee, Minutes of the Annual Meeting, 8E–65
Uppsala. Universitetet. Meteorologiska Institutionen, Meddelande, 8.8–152, 8.8–153
Urania, [Barcelona], 8.1–231, 8.5–66, *see also* p. 1147
Uspekhi Fizicheskikh Nauk, [Moscow], 8B–33, 8B–103, 8G–104

V. Zashchitu Lesa, 8D–26
**Van Allen, James* A. (*ed.*), *Scientific Uses of Earth Satellites*, pub. 1956, 8.9–68, 9.8–70, 8.10–162, 8G–212, 8H–79, *see also* p. 557
Vienna. Akademie der Wissenschaften, see *Akademie der Wissenschaften, Vienna*
Virchows Archiv f. Pathologische Anatomie. . . [Berlin], 8K–70, 8K–140
Vizügyi Közlemênyek, [Budapest], 8.4–281, 8E–60
Vodohospodársky Časopis, [Bratislava], 8.7–242, 8.7–256, 8.7–259, 8.9–246
Vokrug Sveta, [Moscow], 8.3–45, 8.7–40
Vsesoiuznoe Geograficheskoe Obshchestvo SSSR, Leningrad, Izvestiia, 8.3–212, 8.3–241, 8.4–55, 8.4–253, 8.6–292, 8.6–322, 8.6–333, 8.9–286, 8.9–294, 8.10–36, 8.10–251, 8A–38, 8G–103, *see also* p. 414, 698, 1434
Vsesoiuznoe Obshchestvo po Rasprostraneniiu Politicheskikh i Nauchnykh Znanii, [*Publications*], Moscow, 8.3–121
Vsesoiuznyĭ Geograficheskiĭ Sezd, Trudy, 8.4–217, 8.9–182, 8A–28

Wageningen, Netherlands. Landbouwhoogeschool, Mededeelingen, 8.1–15
Wärme- und Kältetechnik, 8.1–105
Washington Academy of Sciences, Wash., D. C., Journal, 8.3–72, 8.5–54, 8.8–101, 8F–47
Wasserwirtschaft, [Stuttgart], 8.3–238, 8.10–70, 8E–46, 8.11–207
Wasser– und Energiewirtschaft, [Zurich], 8.7–294
Weather, [London], 8.1–208, 8.1–217, 8.1–269, 8.2–15, 8.2–22, 8.2–25, 8.2–26, 8.2–30, 8.2–57, 8.2–71, 8.2–101, 8.2–122, 8.2–123, 8.2–136, 8.2–207, 8.2–220, 8.2–221, 8.2–230, 8.2–243, 8.2–244, 8.2–246, 8.2–256, 8.2–258, 8.2–262, 8.2–201, 8.4–46, 8.4–96, 8.4–234, 8.4–255, 8.4–258, 8.4–266, 8.4–268, 8.4–274, 8.5–66, 8.5–69, 8.5–129, 8.5–143, 8.5–152, 8.5–159, 8.5–169, 8.5–243, 8.6–98, 8.6–156, 8.6–324, 8.6–325, 8.7–50, 8.7–60, 8.7–115, 8.7–133, 8.7–172, 8.7–270, 8.7–272, 8.7–273, 8.7–280, 8.7–282, 8.7–321, 8.8–5, 8.8–61, 8.8–63, 8.8–134, 8.8–136, 8.8–137, 8.8–138, 8.8–142, 8.8–144, 8.8–147, 8.8–157, 8.8–160, 8.8–244, 8.8–291, 8.8–299, 8.9–35, 8.9–56, 8.9–282, 8.10–181, 8.10–211, 8.10–285, 8.11–38, 8.11–90, 8.11–187, 8.11–191, 8.11–253, 8.11–256, 8.11–262, 8A–55, 8C–137, 8K–141, *see also* p. 267, 414, 558, 699, 852, 1017, 1285, 1435
Weather Radar Conference, Proceedings, 8.4–84, 8.4–87, 8.5–5, 8.10–88, 8J–138, 8J–127, *see also* p. 699, 1435
Weatherwise, [Boston], 8.3–31, 8.3–63, 8.3–74, 8.3–77, 8.4–41, 8.4–42, 8.4–91, 8.4–127, 8.5–50, 8.5–54, 8.5–199, 8.6–63, 8.7–291, 8.8–71, 8.8–273, 8.8–318, 8.9–115, 8.9–118, 8.9–278, 8.10–40, 8.10–44, 8.10–97, 8.10–259, 8.10–272, 8.11–102, 8.11–127, 8.11–128, 8.11–129, 8C–118, 8C–121, 8F–43, 8F–127, 8I–85, *see also* p. 414, 700, 1017
Weimar. Thüringische Landeswetterwarte, Mitteilungen, 8E–67
Western Australia. University. Geographical Laboratory, Research Report, 8.2–252, 8.9–100
Western Construction, [San Francisco], 8E–47
Western Snow Conference, Proceedings, 8.5–282, 8.6–316, 8.6–341, 8.9–273, 8.9–274, 8C–80, 8D–90, 8E–44, 8E–52, 8E–53, 8E–54, 8E–56, 8E–59, 8E–76, 8E–82, 8E–102, *see also* p. 700
Wetter und Leben, [Vienna], 8.1–236, 8.3–321, 8.4–204, 8.5–281, 8.5–312, 8.7–314, 8.8–124, 8.8–218, 8.9–76, 8.9–103, 8.9–110, 8.9–201, 8.10–64, 8.10–267, 8.10–269, 8.10–277, 8.11–64, 8.11–65, 8.11–96, 8.11–104, 8.11–107, 8.11–247, 8A–90, 8C–54, 8C–88, 8D–79, 8D–84, 8D–86, 8D–89, 8D–101, 8G–65, 8G–79, 8G–102, 8G–108, 8G–113, 8G–129, 8G–139, 8G–142, 8K–71, 8K–73, 8K–92, 8K–107, 8K–128, *see also* p. 267, 1285
Wetterlotse, [Hamburg], 8.1–73, 8.1–77, 8.1–78, 8.1–79, 8.2–36, 8.2–50, 8.2–89, 8.2–90, 8.2–131, 8.2–178, 8.2–189, 8.2–190, 8.4–67, 8.4–68, 8.4–76, 8.4–129, 8.4–189, 8.4–222, 8.4–240, 8.6–102, 8.6–103, 8.6–110, 8.6–152, 8.6–

153, 8.6–206, 8.6–207, 8.6–233, 8.6–294, 8.6–301, 8.6–367, 8.7–37, 8.7–67, 8.7–79, 8.7–92, 8.7–121, 8.8–36, 8.8–230, 8.9–30, 8.9–88, 8.10–73, 8.10–175, 8.10–176, 8.11–19, 8.11–63, 8.11–140, 8.11–173, 8.11–192, 8.11–228, 8C–68, 8C–73, 8C–77, *see also* p. 267, 414, 701, 853, 1147, 1286

**White, Gilbert F. (ed.), The Future of Arid Lands*, pub. 1956, see p. 558

Wire and Radio Communications, [N. Y.], 8C–136

Wireless Engineer, [London], 8.2–223, 8.5–182

Wireless World, [London], 8.4–83, 8J–115

Wissenschaftliche Annalen,. *Berlin*, see under *Akademie der Wissenschaften, Berlin*

Wissenschaftliche Forschungsberichte, [Dresden], 8K–37

Wissenschaftliche Gesellschaft für Luftfahrt, Jahrbuch, 8.10–204

World Meteorological Organization, WMO Bulletin, 8.1–28, 8.1–29, 8.1–30, 8.2–33, 8.3–28, 8.3–34, 8.3–35, 8.3–39, 8.4–34, 8.4–36, 8.4–37, 8.4–38, 8.4–39, 8.4–40, 8.5–44, 8.5–45, 8.5–48, 8.5–51, 8.5–308, 8.6–38, 8.6–61, 8.6–143, 8.6–164, 8.7–35, 8.9–121, 8.11–23, 8 11–24, 8.11–25, 8.11–103, 8C–86, 8C–117, *see also* p. 268, 853, 1017, 1437

World Meteorological Organization, WMO [*Publications*], 8.1–27, 8.5–195, 8.6–112, 8.8–27, 8.9–185, 8.10–34, 8J–151

World Meteorological Organization. Commission for Climatology, Papers, see p. 1147

World Meteorological Organization. Commission for Synoptic Meteorology, [*Reports*], 8.1–27

World Petroleum, 8C–24

Wrocławskie Towarzystwo Naukowe, Sprawozdania, 8.1–266

Wyoming. Agricultural Experiment Station, Mimeograph Circular, 8.5–168

Yale Univ. School of Forestry, Bulletin, 8D–12

Yugoslavia. Hidrometeorološka Služba, Vesnik, 8.3–222, 8.3–237, 8.5–47, 8.5–56, 8.9–223, 8.10–50, 8.11–35, 8.11–110, 8C–56, 8H–70, *see also* p. 701, 1147

Zagreb. Sveučilište. Geofizički Institut. Opservatorij Grič, Meteorološki izvještaj, 8.3–102

Zanzibar. [*Meteorological Service*], *Summary of Meteorological Observations*, 8.3–103

Zeitschrift für Angewandte Mathematik und Physik, [Basel], 8.4–237, 8.5–248, 8.5–249, 8.10–214, 8.11–224, 8I–102

Zeitschrift für Angewandte Meteorologie, [Berlin], 8D–27

Zeitschrift für Angewandte Physik, [Berlin], 8.5–124

Zeitschrift für Astrophysik, [Berlin], 8.2–153, 8.2–155, 8.4–227, 8H–24, 8H–41

Zeitschrift für Flugwissenschaften, [Brunswick], 8.6–304

Zeitschrift für Forst- und Jagdwesen, [Berlin], 8D–36

Zeitschrift für Geophysik, [Brunswick], 8.7–246

Zeitschrift für Gletscherkunde und Glazialgeologie, [Innesbruck], 8.6–314, 8.6–326, 8.6–327, 8.6–329, 8.6–330, *see also* p. 558

Zeitschrift für Kinderheilkunde, [Berlin], 8K–67

Zeitschrift für Klinische Medizin, [Berlin], 8K–88, 8K–113

Zeitschrift für Kreislaufforschung, [Dresden], 8K–5

Zeitschrift für Meteorologie, [Berlin], 8.1–141, 8.9–151, 8.1–156, 8.1–181, 8.1–397, 8.2–60, 8.2–61, 8.2–75, 8.2–83, 8.2–86, 8.2–113, 8.2–171, 8.3–320, 8.4–327, 8.4–343, 8.5–150, 8.5–151, 8.5–205, 8.5–215, 8.5–258, 8.6–116, 8.6–137, 8.6–221, 8.6–223, 8.6–348, 8.7–103, 8.7–112, 8.7–127, 8.7–143, 8.7–193, 8.9–53, 8.9–130, 8.9–152, 8.9–156, 8.9–163, 8.9–310, 8.9–312, 8.9–313, 8.9–315, 8.9–318, 8.9–320, 8.10–152, 8.10–173, 8.10–190, 8.10–229, 8.11–47, 8.11–138, 8.11–177, 8A–35, 8A–59, 8D–96, 8G–95, 8G–133, 8I–56, 8I–63, 8I–131, 8J–163, *see also* p. 137, 268, 559, 1017, 1565

Zeitschrift für Physik, [Brunswick], 8B–2

Zeitschrift für Physikalische Chemie, [Leipzig], 8G–13

Zeitschrift für Urologie, [Berlin], 8K–51

Zemlevedenie, [Moscow], 8.11–242

Zentralblatt für Chirurgie, [Leipzig], 8K–121

Zhurnal Eksperimental'noĭ i Teoreticheskoi Fiziki, [Moscow], 8B–101

Zhurnal Geofiziki, [Moscow), 8G–23, 8G–25, 8G–30

Zhurnal Tekhnickeskoĭ Fiziki, [Moscow], 8G–26